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STARK FRUITS;

As Grown by the

STARK BRO'S NURSERIES & ORCHARDS CO

PROPRIETORS of the

STARK NURSERIES,

LOUISIANA, MO., ROCKPORT, ILL.,

U. S. A.

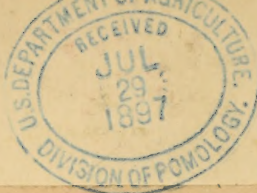
1,000 acres Nurseries. 40,000 acres Orchards.

FOUNDED 1825

STARK TREES & BEARFRUIT

COPYRIGHT, 1896, BY STARK BRO'S.

IMPORTANT.—The Entire Contents of
this book are covered by Copyright and nur-
serymen, dealers and others everywhere
are Cautioned against using same,
either wholly or in part.



Important

MY DEAR SIR: I beg to assure you that each particular one of the varieties herein has been selected according to the best judgment and knowledge I possess, and in the light of the **accumulated experience** of **three generations** of **fruit growers** and **nurserymen**. I earnestly believe the sorts recommended in this book are of the **best known to modern Horticulture**.


Faithfully yours,

STARK BROS. N. & O. Co.

Wm. Stark Pres't

Our Salesmen are sent out to sell Stark Fruits by samples, thereby often saving our customers expensive and weary trips to the Nurseries, or their time, trouble and expense of making out and sending off their own orders and getting same in small lots. By filling a large number of orders, shipping in carload lots, etc., we can **deliver**, freight and all charges paid, even a small order for less than the freight alone would often be, if ordered by itself.

No. **7658**, Series **M**

 **HANDLE CAREFULLY.**—Please use this Sample Book **with care**—it is expensive. **Do not mark** prices on the plates. Carry it in a special inner **pocket**. Avoid getting it wet or soiled. By erasing finger marks each week with rubber, the plates can be kept neat and clean.

1896

STARK
NURSERIES

FRUIT
BOOK



GOLD

TRADE MARK PAT'D. FEB. 26. 1895

\$3,000.00 PLUM.

COPYRIGHT 1896
BY STARK BROS

Rochester Litho. Co.
ROCHESTER, N.Y.

PIT OF GOLD PLUM.
PAINTED FROM NATURE
for STARK BROS

The horticultural **Triumph of the Ages**. The marvelous product of crossing two widely differing races of plums, the Japan and Native American. Not only vastly better than the parent races, but far superior to **any** plum of **any** race hitherto known. In short, to quote the great Burbank, "Among plums there is **NOTHING ON EARTH AS BEAUTIFUL OR GOOD.**"

STARK BRO'S NURSERIES & ORCHARDS CO



The OLD BLUE-BACK SPELLER

was erstwhile thumbed by how many who read these words! And the old familiar picture!—each heart recalls a different scene, but all remember well how, cribbed cabined and confined while sunshiny afternoons dragged their slow length along, the feeling akin to pity grew into real admiration for the "young sauce-box" who would not come down, either for words or grass.—It **TAKES** stones and bull-dogs to make boys come down out of STARK Trees!

LOUISIANA, MO.
ROCKPORT, ILL.



TELL YOUR FRIEND
we want more
Salesmen
and Club-Makers
everywhere

to take orders—STARK trees
almost sell themselves! Cash
pay weekly

No experience necessary
We'll teach—he'll succeed.

STARK TREES BEARFRUIT

STARK TRADE MARK

You can't afford to take chances. No man wants to lay the ax to the root of a tree, or dig it up, just when old enough to bear.—A Tree is Known by its fruit. Stark trees bear fruit—the finest science has ever produced.

Gold (\$3,000) Plum

some golden globes—nothing on earth as beautiful or good." No marvel, then, that such a jewel of purest ray serene is worth a small fortune; nor that we were glad to pay full \$3,000.00 FOR A SINGLE TREE.

GOLD is controlled by us under Patented Trade-Mark—NOT GROWN OR SOLD BY OTHERS.



Earliest of All and Red June are the hardiest in bud and bloom; bore full when Abundance, etc., were killed. Follows strawberries and **10 days earlier** than Red June; half as large, solid dark red, good quality, free stone. Drops easily but don't rot and is very profitable—shake the fruit on sheets and market in quart berry boxes. Tree dwarfish.

STARK TREES
BEARFRUIT
STARK TRADE MARK

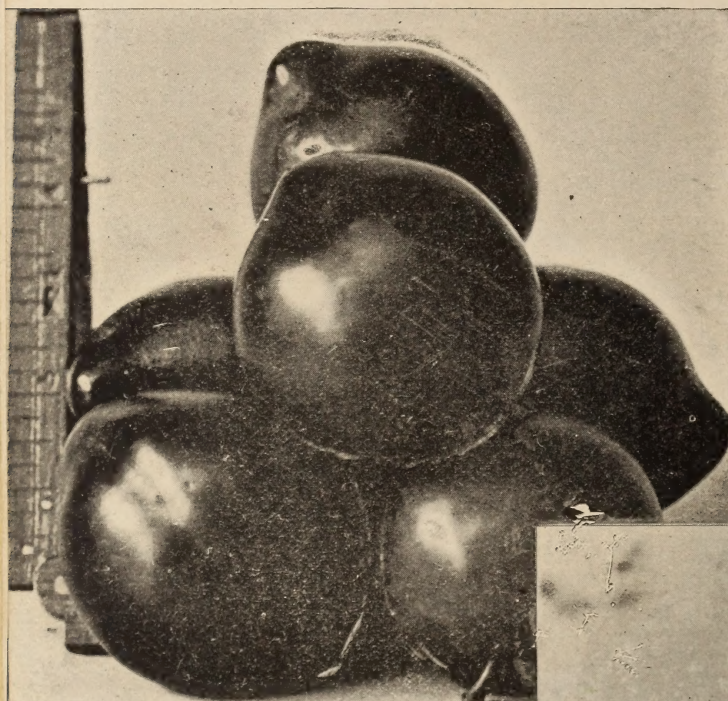
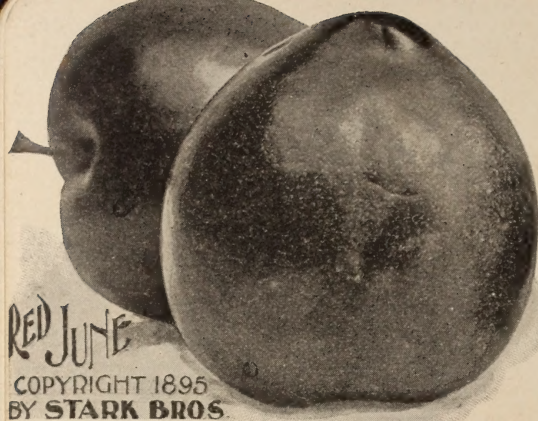


Rochester Litho. Co.
ROCHESTER, N.Y.

RED JUNE, Emperor of Japan Damson,
two weeks earlier than Abundance, **hardy in bud and bloom**; loaded down with magnificent plums in '95 when Abundance, etc., were all killed. Ripe June 28, here in N. E. Mo.; ready to ship some days earlier; **colors a solid red**, even if picked when just turning, hence outsells Abundance, and all partly-colored sorts. **Doesn't drop**; juicy, good, a **delicious canning plum, with finest Damson flavor.**

Red June Trees planted Spring '94, yielded June '95, the **second year**, over a gallon per tree of large, fine, well ripened plums.

QUESTION.—Is it better to plant Gold and Japan plums, that **BEAR IN ONE OR TWO YEARS**, or European sorts, such as Prunes, Gages, and others, that don't bear for 6 or 8 years?
 If you plant for profit, figure a little.



RED JUNE JAPAN PLUM.—Tree and Fruit.

OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK

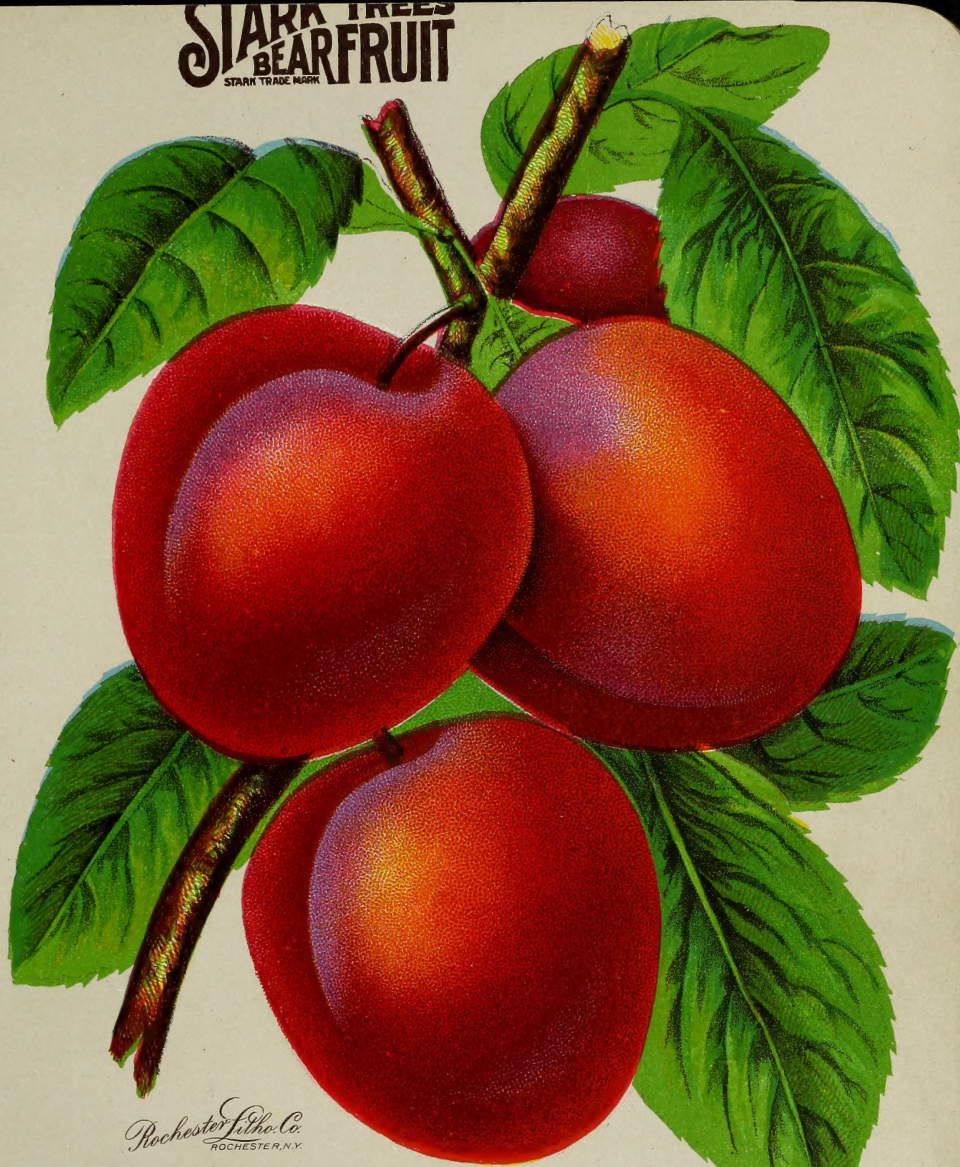
STARK TREES
BEARFRUIT
STARK TRADE MARK



RED JUNE PLUMS Make Boys Mouths Water.

STARK TREES BEARFRUIT

STARK TRADE MARK



Rochester Litho. Co.
ROCHESTER, N.Y.

BURBANK, bears 100 Plums to the Square foot.

Superior **every way**, to Abundance, Berckmans (Botan), and all the older Japs—except Red June. Strong, **hardy, long lived** tree; great bearer, **even at 2-yrs.**

Next in value after **GOLD** (which we believe the most valuable plum in cultivation), comes the Japs; many tested are worthless, some are good, **5 are grand**—named in order of VALUE, numbered in order of ripening: RED JUNE (1), WICKSON (5), NORMAND (3), BURBANK (4), ORIENT (6), ABUNDANCE (2). Other Japs 2d Choice, or discarded.

Red June, hardest in bud, **surest bearer**, **freest** from rot, most profitable, beautiful and **grandest Jap** yet fully tested. The only Jap that has given us **FIVE SUCCESSIVE CROPS**. Last two years have raised **Red June 100 per cent.** in our estimation.

Wickson (Perfection), solid red color like Red June; **largest plum** we have ever seen. NEW, and we have only fruited it one year; may yet prove, as Mr. Burbank says, “best of all Japs.”

Normand, JAPAN YELLOW GAGE, very fine and large—size of **Red June apple**. Golden yellow, high quality, freestone. Bears early and well.

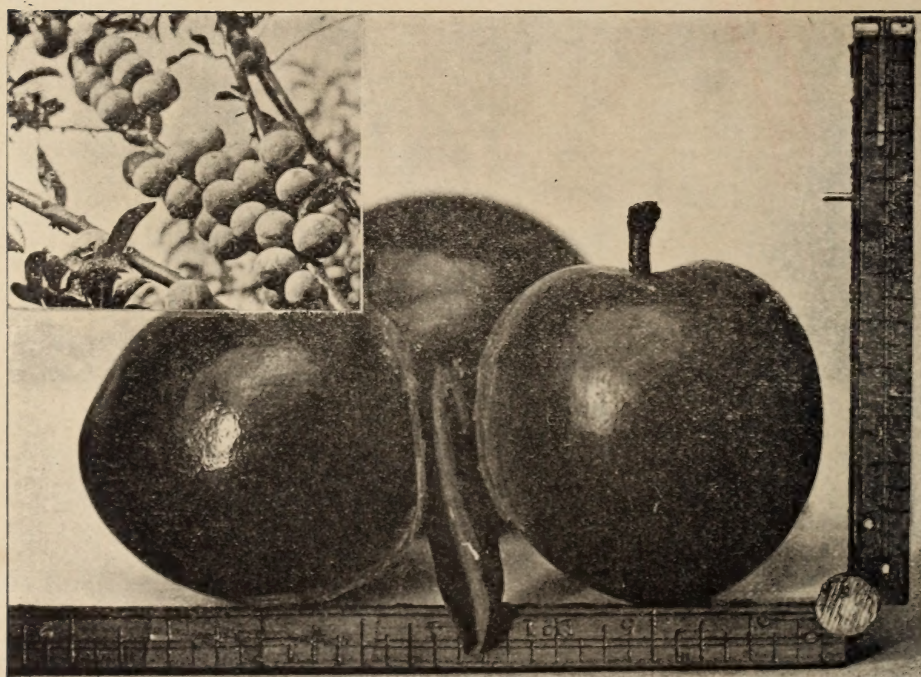
Orient, a late bloomer and the **next surest bearer** after Red June.—Large; yellow and deep red. Excellent quality and a **long keeper**.

Abundance is good, but not quite hardy enough in tree, bud nor blossom; is subject to fruit-rot, and lacks color to sell well in market.

OLD OAK PROCESS
WHOLE ROOT TREES
PAT. & TRADE MARK



A JULY DAY, GATHERING BURBANK PLUMS.
 MAKES TIRED BOYS.



ORIENT, JAPAN PLUMS, and section of tree.



FREE SILVER

VAN DEMAN, One of the \$9,000.00 New STARK Fruits

Controlled by us under PATENTED Trade-Marks—these fruits
CANNOT BE GROWN OR SOLD BY OTHERS.

This photo shows a "medium or a little LESS than medium sized **VAN DEMAN** quince and an AVERAGE **Meech Prolific**, BOTH GROWN UNDER EXACTLY SAME CONDITIONS."—L. Burbank.

VAN DEMAN, the GIANT Quince

Strong Grower, **Earliest** and **Hardest** of all. "Will, without doubt, PRODUCE MORE BIG, FINE-FLAVORED GOLDEN FRUIT than any other. Bears THREE CROPS; the first ripens TWO WEEKS OR MORE before Orange or Meech, often weighing, even when grown on small trees, **25 to 26 ounces**—over FIVE INCHES IN DIAMETER. All are of MOST SUPERIOR FLAVOR, TEXTURE AND QUALITY, are tender and good BAKED, and bake quickly too. When DRIED OR CANNED, retain all the quince flavor so much admired. Opens a new field.

"Growing, side by side, Orange, Rea Mammoth, Meech, Champion and others, but not one of them has ever borne any fruit at all comparable with **Van Deman** in SIZE, QUALITY, FLAVOR OR BEAUTY."

VAN DEMAN and MEECH
QUINCES
both grown by
LUTHER BURBANK

Meech Prolific

Meech is an early and abundant bearer and the fruit of very large size, beautiful appearance and delicious flavor. After some years' test alongside of Rea Mammoth, Orange, Champion, etc., we find it SUPERIOR to them all. Second only to VAN DEMAN—but VAN DEMAN is simply UNEQUALLED UNAPPROACHED

VAN DEMAN
Reg. Trade Mark

Copyright by
STARK BROS.

STARK TREES
BEARFRUIT
STARK TRADE MARK



P. S. Schuchert & Co.
 ROCHESTER, N.Y.

SPLENDOR—Patented Trade Mark

This magnificent new \$3000.00 prune is a scientific cross between Petite (French) and Hungarian (Pond's). "Trees are perfection in growth and productiveness, and though having somewhat the general appearance of Petite, yet the branches are more sturdy and with very little pruning, naturally assume a uniform appearance, much superior to either parent. As a combined drying, shipping, market and table plum it has no rival. A darker, richer violet purple than French, but has the same firm, rich, sugary flesh, ripens two weeks earlier, and being three or four times larger and a perfect freestone, will perhaps supplant that grand, long-known and extensively grown variety, and change the whole prune industry of the world."—So writes the great Burbank; and later adds:

"I am much more convinced than ever of Splendor's superlative value, owing to incomparable firmness, beauty, productiveness, size, EXQUISITE QUALITY, early ripening, hardness and vigor of tree, and because of wonderful keeping qualities and being perfectly freestone. More than TWO WEEKS EARLIER than French prune—a very important matter. A stupendous bearer and has NO FAULTS."

Gold is a plum to plant everywhere, Splendor only where German and other prunes, Lombard, Damsons, etc., succeed.



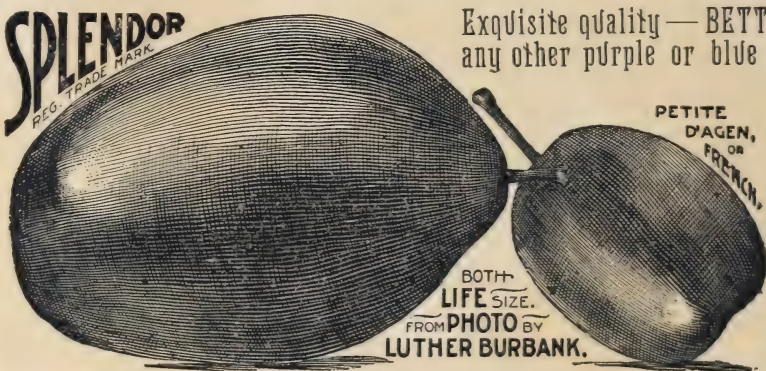
Above is from Photo of a cluster—greatly reduced in size. See below for life size Splendor, also French, showing the DIFFERENCE.

SPLENDOR, one of the **\$9,000.00** New **STARK** Fruits,

Controlled by us under **PATENTED** Trade-Marks—these fruits **CANNOT BE GROWN OR SOLD BY OTHERS.** ➡

SPLENDOR
REG. TRADE MARK

Exquisite quality—**BETTER** than any other purple or blue plum



SPLENDOR (\$3,000.00) Prune and French Prune—from Photo. “Both grown under exactly the same conditions.”

GOLD is a plum to plant **EVERYWHERE**, **SPLENDOR** **ONLY** where German Prune and other prunes, Lombard, Damsons, etc., succeed.

“Splendor is a scientific cross. As a combined **DRYING, SHIPPING, MARKET AND TABLE PLUM** it has no rival. Color darker and richer than French, but has the **SAME FIRM, RICH, SUGARY FLESH**, ripens **TWO WEEKS EARLIER**, and being **THREE OR FOUR TIMES LARGER** and a perfect natural **FREESTONE**, will perhaps supplant that grand, long-known and extensively grown variety, and **CHANGE THE WHOLE PRUNE INDUSTRY OF THE WORLD.**”—So writes the great Burbank; and later adds:

“I am much more convinced than ever of Splendor's superlative value, owing to incomparable firmness, beauty, **productiveness, size, EXQUISITE QUALITY**, early ripening, hardness and vigor of tree, and because of wonderful **keeping** qualities and being **perfectly freestone**. More than **TWO WEEKS EARLIER** than French prune—a very important matter. A **stupendous bearer** and has **NO FAULTS.**”

Van Deman, one of the \$9,000.00 new Stark fruits
Controlled by us under PATENTED Trade-Marks—these fruits
CANNOT be Grown or Sold by Others.

From photos showing a "medium or a little LESS than medium sized **VAN DEMAN** quince and an **AVERAGE Meech Prolific**, BOTH GROWN UNDER EXACTLY SAME CONDITIONS." Also part of "a 2-yr. tree in nursery row, bending under 12 mammoth fruits. Trees loaded to the ground and a wonderful sight."

Van Deman,
PAT'D TRADE MARK.

PHOTO. 2-YR. TREE NURSERY ROW.

PAINTED FROM NATURE
for STARK BROS.

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BY STARK BROS.

Rockester Photo Co.
ROCHESTER, N.Y.

MEECH.

STARK TREES
BEARFRUIT
STARK TRADE MARK

VAN DEMAN.



From a **Photo (greatly reduced)** of the **GIANT VAN DEMAN Quince**, showing "part of a **2-yr.-tree** in nursery row, bending under **12 mammoth Fruits**, not yet fully grown — only nine of the twelve could be shown. Trees loaded to the ground and a wonderful sight."—L. Burbank.



STARK TREES
BEARFRUIT
STARK TRADE MARK

The MOST DELICIOUS THING in the WORLD

is **Van Deman Quince Syrup**. Far surpasses the purest **Maple Syrup** ever made. Take 1 part Van Deman quinces, 3 parts apples. If **JELLY** is desired, simply cook down a little more. For hot cakes, &c., **EITHER** the Syrup or Jelly will be a revelation to you — we **KNOW** for we've tested it. It's a **Great Food Product** for high-class trade, and will be advertised and put on the market, as soon as enough **VAN DEMAN** fruit can be had — **no other** sort has so exquisite a **flavor**.

Come in on the **GROUND FLOOR** — we have already **planted over 3000** Van Deman trees, intend to plant many more. **A Long-Keeper** and the fruit can be shipped like apples to the **SYRUP FACTORIES**. The **Earliest** Quince by **TWO WEEKS**; **Hardest** and a remarkably **Strong Grower**. **Large, Delicious** fruit of **Incomparable Flavor** and **Great Reputa-**



Rochester Siltho Co.
ROCHESTER, N.Y.

STARK TREES
BEARFRUIT
STARK TRADE MARK

FLORENCE, Finest Crab Ever Fruited

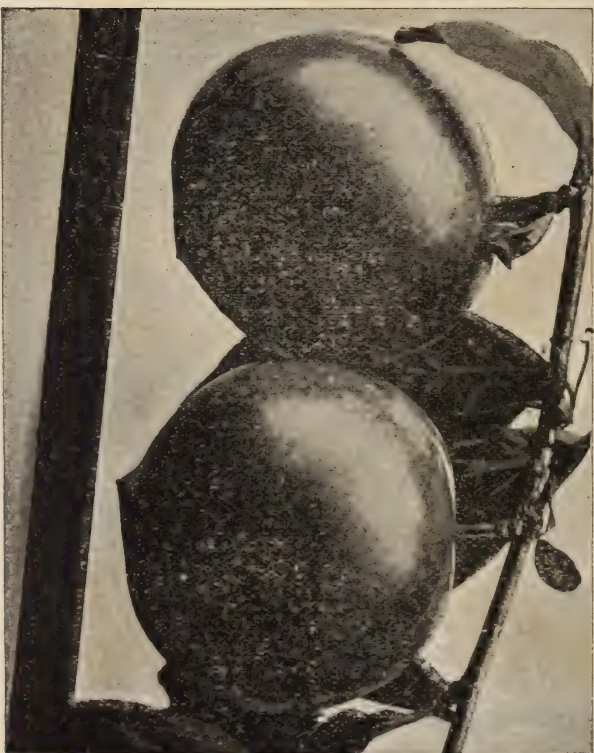
“WORTH ALL OTHERS PUT TOGETHER.” Early, large, beautiful, best quality; the youngest bearer, most prolific, most profitable of all. The best crab to plant in small space—6 ft. square is ample.



ABUNDANCE.

OLD OAK PROCESS
WHOLE ROOT TREES
PAT. D. TRADE MARK

STARK TREES
BEARFRUIT
STARK TRADE MARK



STARK TREES
BEARFRUIT
STARK TRADE MARK

SUNRISE.

SUPERB.

Stark Brothers
 ROCHESTER, N.Y.

SUNRISE, a hardy seedling in the orchard of our neighbor, R. K. Smith, proves our earliest and largest hardy apricot. Has borne SIX SUCCESSIVE CROPS, two of them while a large peach orchard adjoining did not bear a peach. Sunrise is not equal in quality to Superb—neither is any other apricot—but is larger. Alex., Budd and many other Russian apricots now discarded.

SUPERB, a hardy seedling, from Lawrence, Ks., where we saw it 2 yrs in full fruit. "Has produced more fruit, of larger size, and better—most superb—quality, than any other, native or foreign. Better and more constant bearer than any hundred others. Exhibited at the Nurserymen's Convention, where its exquisite quality, in comparison with others, was conceded by all. Superb, raising the average in size and quality of this excellent fruit, is worthy of extensive cultivation. Some Eastern firms would make fortunes out of it."



ORIENT Japan Plum. "A Wonder to Bear."

OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK



SUDA, from Stark Denver Orchards.

STARK TREES
BEARFRUIT
STARK TRADE MARK

STARK TREES
BEARFRUIT



DYEHOUSE, Best Early Cherry

Earlier, larger, firmer, better quality, and pit smaller than Early Richmond—equally hardy and productive.

These five cherries—**Dyehouse, Abbesse, Montmorency O. (best of all), German Ostheimer, and Suda Hardy**—cover the entire season, the best out of over 200 sorts we have tested. With this “Big 5” we don’t need any others.



STARK TREES
BEARFRUIT
STARK TRADE MARK

STARK GREEN GAGE.

OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK



ABBESSE SWEET DUKE

HARDY as a MORE

SWEET as a HEAR

QUALITY THE FINEST OF /






STARK TREES
BEARFRUIT
STARK TRADING CO.

Rochester Nurseries Co.
 ROCHESTER, N.Y.

MONT. O., KING CHERRY

A mortgage lifter. The only fruit crop that **has absolutely never failed**. Plant a 1,000—**best canner** and **all-purpose cherry** and outcrops them all. Grand every way. Tree **HALF DWARF**. Cannot be too highly recommended for its **never-failing heavy crops** of fine fruit, and beauty and hardiness of tree.  We pick cherries with **scissors**—far better and 3 times faster.



GERMAN OSTHEIMER (NOT Ostheim) Cherry, in STARK Denver Orchards.

A 3-YR. tree—its SECOND Crop.

STARK TREES
BEARFRUIT
STARK TRADE MARK

OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK





STARK TREES
BEARFRUIT
STARK TRADE MARK

Rochester Litho. Co.
ROCHESTER, N.Y.

KOONCE FROST-PROOF, Largest Early Pear

Very early, heavy bearer, large, handsome, good. Does not rot at core. Has never blighted. Frost-Proof—bore in 1894, when all others in same orchard were killed.

SUDA HARDY CHERRY.

PHOTO of one branch of a four-year Suda tree. Mr. Heikes, a leading southern nurseryman was visiting us when the photo was taken, and after his return home wrote us :

"To see that little cherry tree bending almost to the ground with the heaviest load of fruit I ever saw on a tree was alone worth my trip of a thousand miles."

The original Suda Hardy tree did not fail to bear for 20 years ; was in perfect health when cut down to make way for buildings. Suda and German Ostheimer are liable to be hastily condemned, because the fruit colors red before two-thirds grown and long before ripe, when it is almost black. These two are the best of all the late black sour cherries.



SLACK'S
BEAR FRUIT
STAN TRICK, MICH.

SUDA HARDY

Copyright 1902



Wilder Early Pear

"HANDSOME, MELTING, SWEET, PLEASANT, VERY GOOD" ELLWANGER & BARRY.

"IT HAS COME TO STAY," HON. H. E. VAN DEMAN. "ONE OF THE BEST, IF NOT THE BEST OF ITS SEASON," PREST. T. T. LYON.

"GOOD, HANDSOME, PLEASANT," JOHN J. THOMAS. "DELICIOUS, WORTHY OF TRIAL," RURAL NEW YORKER.

"BEST QUALITY OF EARLY PEARS, EARLIEST GOOD PEAR, BEST KEEPING EARLY PEAR."

YOUNG TREES HAVE OFTEN MADE SEVEN FEET GROWTH IN FIVE MONTHS.

STARK BRO'S NURSERIES & ORCHARDS CO

LOUISIANA and the "BIG 3" Cities.



Louisiana, Mo., Rockport, Ill., on the Upper Mississippi River, between the Grand Cities, Chicago, St. Louis and Kansas City, with **two Great Competing R. R.'s** to each.

STARK TREES
BEARFRUIT
STARK TRADE MARK

STARK TREES
BEARFRUIT
STARK TRADE MARK



Shooker & Co.
ROCHESTER, N.Y.

POINTERS:—Tyson is grand—
plant standards only. Great bearer
if headed low as all pears ought to
be; "sweet as Seckel."

TYSON, Summer Seckel, is FINE, hardy, long lived, exempt
from blight—26-year-old standard trees have never failed a crop since bearing age.
FRUITS are Profit, Luxury, Health, Contentment,
Purity, Refinement.



DE SOTO PLUM.

SUDA HARDY (3 yr.; Second Crop.)

STARK TREES
BEARFRUIT
STARK TRADE MARK

OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK

A detailed illustration of two large, ripe pears. The pears are a mix of yellow and orange-red, with small dark spots on the skin. They are attached to a brown stem with several large, green, serrated leaves. The background is white.

STARK TREES
BEARFRUIT
STARK TRADE MARK

Stark Bros. & Co.
ROCHESTER, N.Y.

BOUSSOCK BEST, our favorite OLD STANDBY. Bears full every year—NO FAILURES.

"May to a great extent supersede Bartlett; fully equal in quality, ripens about a week earlier."—*Mo. Hort. Soc.*

"The market pear of the Belgium farmer, large, productive, showy, and well known in the English market. Thousands of baskets of it are frequently seen on the London steamers' wharf at Antwerp."—*Pres. Berckmans.*



GARBER, 3 YR.

AN AVENUE OF
STARK
KIEFFER AND GARBER

KIEFFER, 3 YR.

GARBER
HYBRID.

SECKEL.

STARK TREES
BEARFRUIT
STARK TRADE MARK

HOWELL.

GARBER, King of Hybrid Pears. Large as Kieffer, better in quality, two months earlier. **SURE BEARER.** Sold for \$4 a bushel when other pears brought only \$2. Also plant Garber and Kieffer for Avenue Trees—see photo.

SECKEL, small but of highest flavor. Healthy, long-lived.

HOWELL, one of the finest American pears. Sweet, melting.



L UISE BONNIE JERSEY



STARK TREES
BEARFRUIT
STARK TRADE MARK

OLD OAK PROCESS
WHOLE ROOT TREES
PAT. D. TRADE MARK

STARK TREES
BEARFRUIT
STARK TRADE MARK
 LOUISE BONNE JERSEY, — DWARF.



DUCHESSE, — DWARF.

A Fine Pair
 of DWARF Pears

Louise Bonne Jersey, large, beautiful, melting, juicy, rich. Bears heavily as a dwarf—a single cluster has contained 54 pears.

Duchesse (d'Angouleme), one of the largest of all good pears; often weighs over a pound. A most profitable market sort when grown as a dwarf. Frequently bears the first season after planting.

A Profitable Pear Orchard.—U. S. Pomologist Heiges: "The pear orchard of C. S. Mills, near South Haven, Mich., was the finest that ever came under my observation. Trees 8 years old, mostly Duchesse dwarf, and in 1893 the entire crop averaged \$5 per barrel in Chicago; in 1894, the crop was simply enormous."

Stark Bros. Co.
 HARTFORD, CT.



BARGAIN SIZE AND X X

OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK

STARK TREES
BEARFRUIT
STARK TRADING CO.



Rochester Fruit Co.
 ROCHESTER, N.Y.

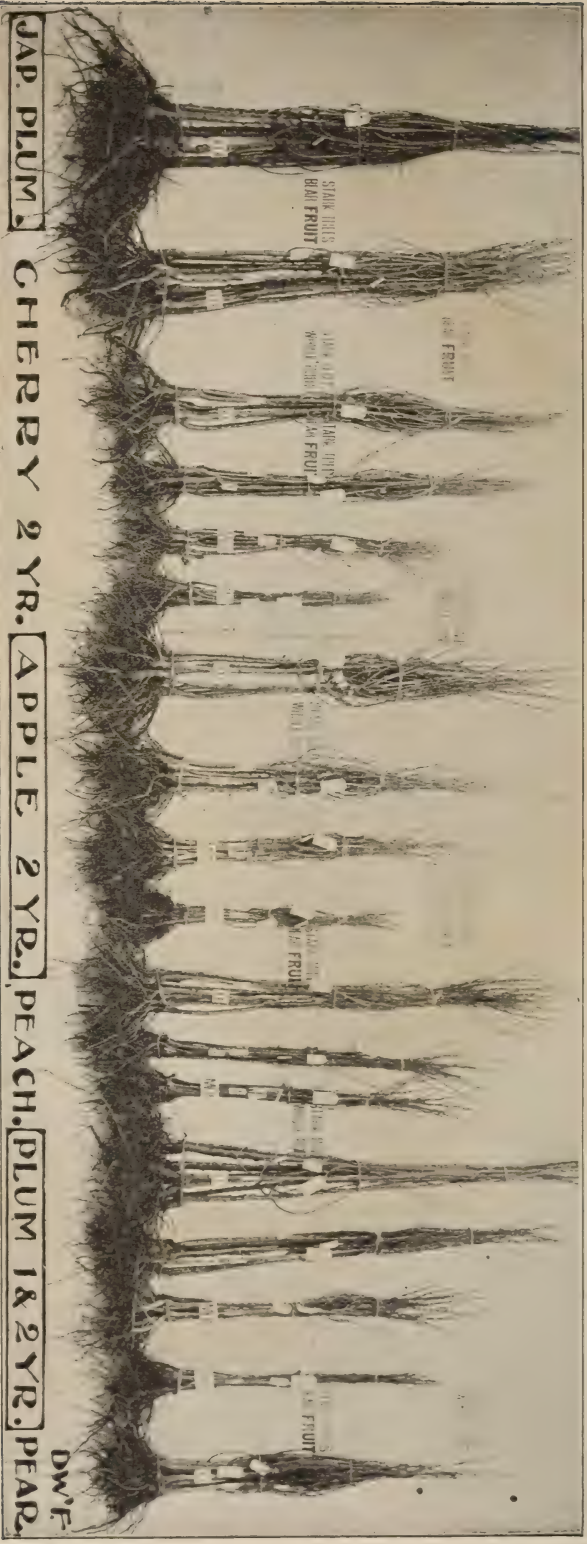
RUTTER SEEDLESS,

Ripe just before Kieffer ;
 of largest size and best quality
 for so large a fruit. **Bears in 3**
years $\frac{1}{2}$ bushel of fine pears to tree ;
 even **more productive** than Kieffer and a
surer bearer, bearing when Kieffer fails. Size and
 quality like Idaho, but tree hardy and not subject to blight—worth a thousand times more than
 Idaho or Lincoln Coreless ; Idaho blights to death, Lincoln coreless is to poor to eat.

G. C. BRACKETT, Sec. Kas. Hort. Soc. : "Tender, juicy, rich—a SUBSTANTIAL FOOD, satisfying hunger.

A. H. GRIESA, Kas. : "Garbers and Kieffers PAY. Rutters are BETTER THAN ANY OTHERS, PAY
 BETTER THAN THE BEST, and SURE BEARERS at better prices THAN APPLES."

Pears Without Cores—"It is extremely rare that a seed is found in the Rutter. A singular
 feature is, increase in productiveness. Rutter especially, is a **great bearer**—almost as many
 pears as leaves on the tree. Needs thinning, then the flavor is delicious."—Meehan's Monthly.



JAP. PLUM. CHERRY 2 YR. APPLE 2 YR. PEACH. PLUM 1 & 2 YR. PEAR. DW'F.

STARK TREES
BEAR FRUIT
STARK TREES, MARYLAND

OLD OAK PROCESS
WHOLE ROOT TREES
PAY TO TRADE MARK



Rochester Fruit Co.
ROCHESTER, N. Y.

KIEFFER

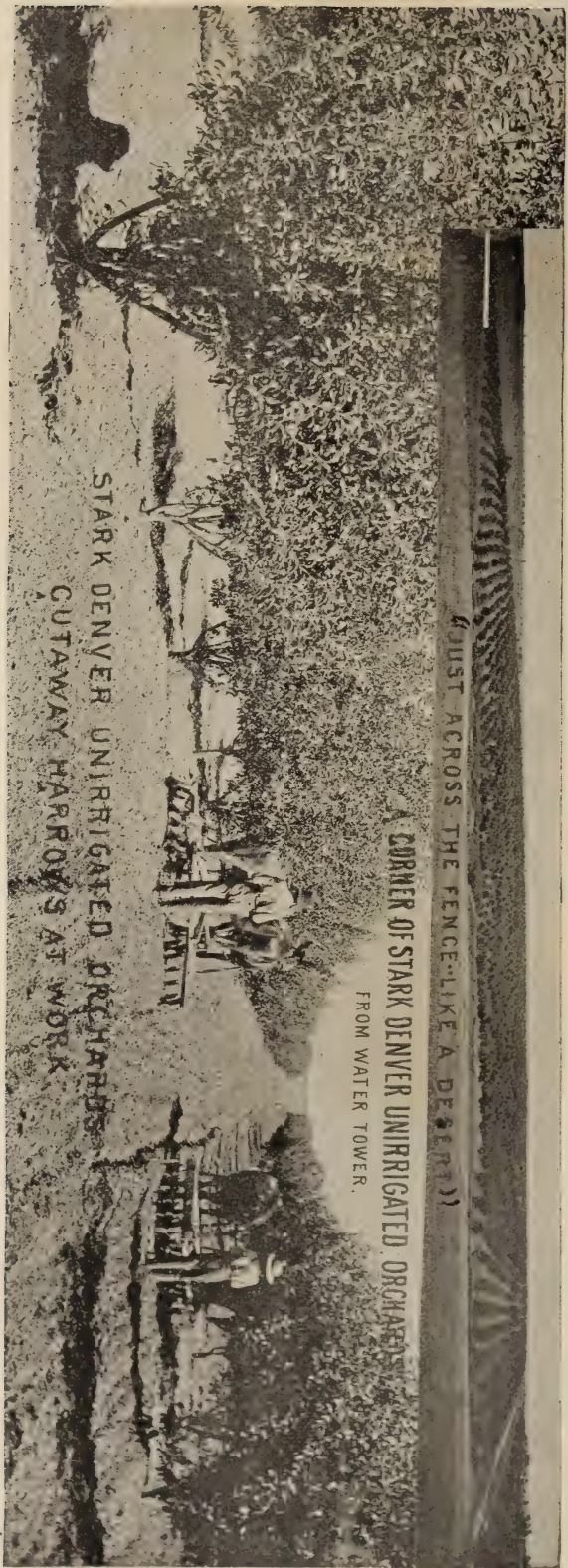
Very **profitable**. Excellent for canning, but should not be used until weeks after gathered. Its wonderful fruitfulness is surprising; 4-yr. trees have yielded 3 bushels each of perfect fruit. Keeps easily until mid-winter.

JUST ACROSS THE FENCE-LIKE A DESERT)

A CORNER OF STARK DENVER UNIRRIGATED ORCHARDS

FROM WATER TOWER.

STARK DENVER UNIRRIGATED ORCHARDS
CUTAWAY HARROWS AT WORK




STARK TREES
BEARFRUIT
STARK TRADE MARK

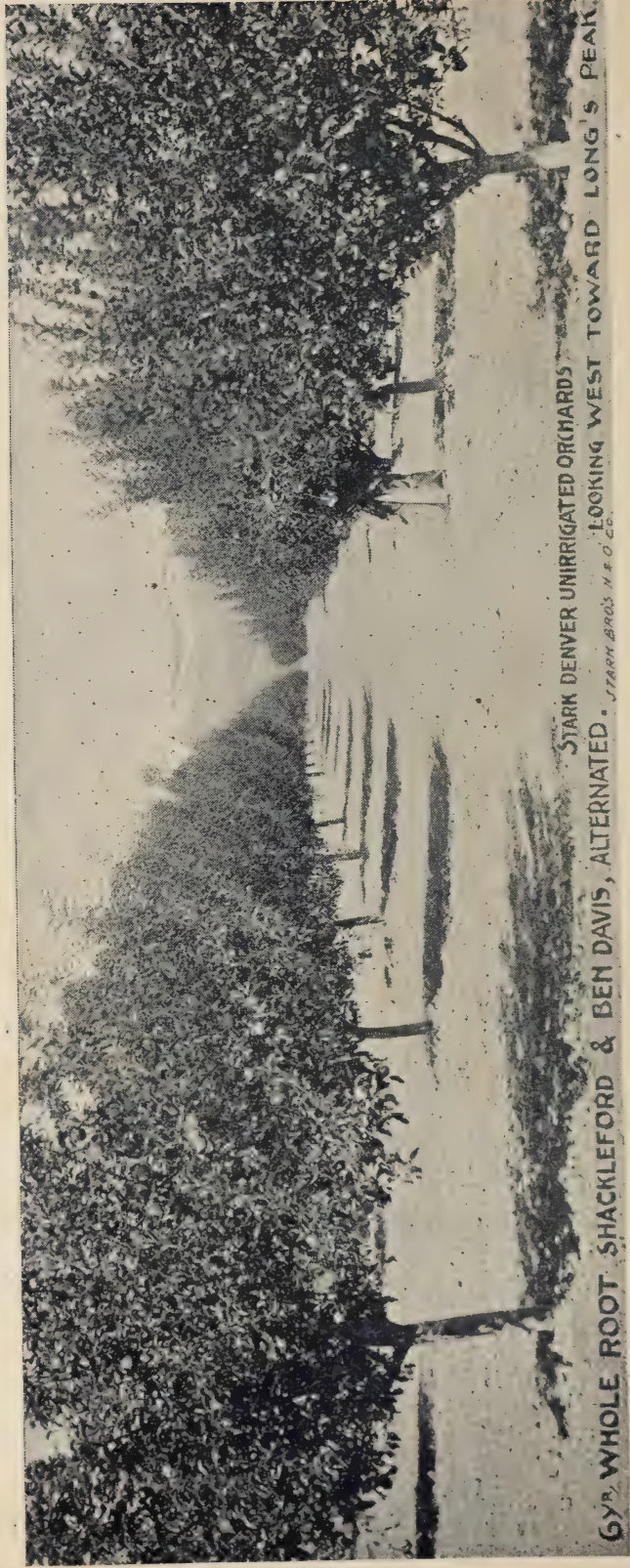


KRULL WINTER, King of Keepers

A native Missouri seedling. Keeps till April in barrels just like apples. Lemon yellow, with a delicate bloom, giving it a rich appearance; skin thick and strong. Flesh firm until fully ripe, when it becomes juicy, melting, rich and sweet. Old trees, of immense size—nearly two feet in diameter—are still healthy, free from blight, and productive; some seasons bear 25 bushels each.

“The best winter pear I have seen; surpasses Lawrence in quality and coloring, and is a very late keeper.”—U. S. Pomologist Van Deman.

 If picked when it rains, Apples, Pears, etc., will not keep. The best time is during dry weather and sunshine. A north wind makes it so much the better, as it closes the pores of the fruit. Fall sorts should be picked shortly before ripe—when seeds are brown, or when the stem parts easily—but winter fruit should hang on the trees as long as possible.



STARK DENVER UNIRRIGATED ORCHARDS. LOOKING WEST TOWARD LONG'S PEAK. STARK BROS. N.E.O. CO.

OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK

STARK TREES
BEAR FRUIT
STARK TRADE MARK

For 50 years, our one hardy peach ; comes TRUE from seed—seedling peaches are hardiest. Stands more cold than others ; 36-yr. trees STILL BEAR—Bear when others fall. PURE trees are seedlings, always TRUE from seed—we never bud it. Beware of bogus BUDDED stock.

No peach ever approached the unexampled record of Summer Snow. For 50 years it has been THE great PRESERVING AND CANNING peach. Has NEVER FAILED TO COME TRUE from seed ; known here for more than a generation as the hardiest, longest-lived, and surest bearer ; the most luscious, juiciest and SWEETEST of peaches. A beautiful snowy white cling, clear white to the stone.

"Juiciest of peaches, and sweetest of juice—full of it. For canning, we use no sugar at all. One of the best peaches grown, and just about perfection for canning—far more delicious than Heathcliff, and ripens a month earlier."

SUMMER SNOW

Copyright 1896 BY STARK BROS

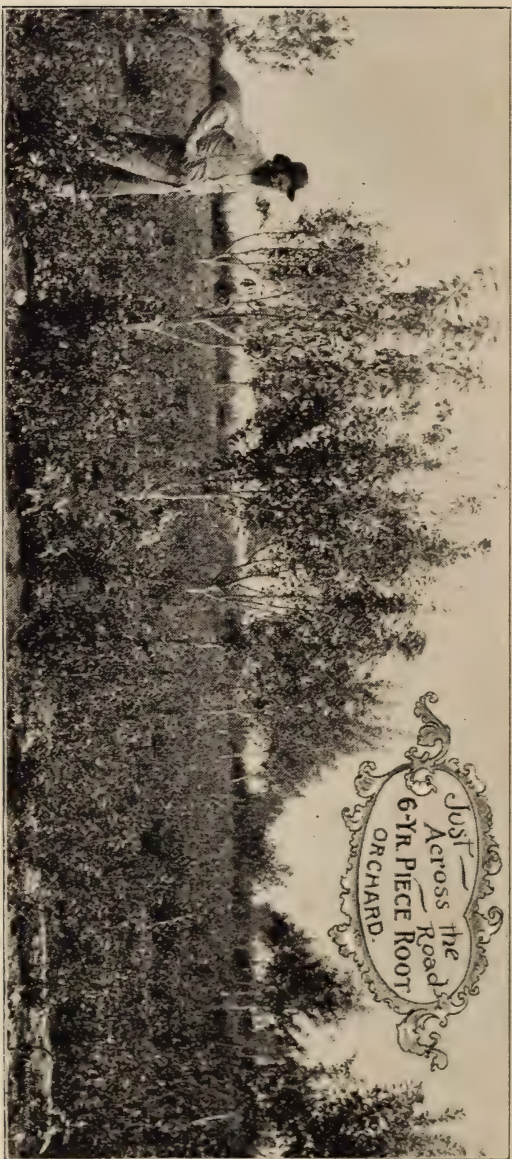
SWEETEST, JUICIEST,
GREATEST CANNING PEACH.


STARK TREES
BEARFRUIT

STARK TRADE MARK

Wheeler & Langley Co.
Fruit Growers





A detailed illustration of Elberta peaches. In the foreground, a large, ripe peach is shown in profile, displaying a gradient of colors from yellow-orange to deep red. To its right, another peach is cut open, revealing a bright yellow-orange flesh and a dark, textured pit. The background is filled with lush green leaves and a small, unopened flower bud on a reddish stem.

ELBERTA SEEDLINGS;

never before offered or sold.

\$300 Reward for each new sort worthy of propagation. Elberta Seedlings, next in hardiness to Summer Snow, are grown from **CROSS-POLLINATED** Elberta seed from a 600-acre orchard containing **Just eight** finest budded sorts; no common peaches within miles.

The fruit bringing **\$3 to \$5** a bushel shipped fresh, made the seed very costly; but every tree should bear a fine peach, and some, perhaps, sorts of surpassing excellence, better than any yet known.



STARK DENVER ORCHARDS, AT 4 YEARS, Looking North towards Denver, Distant 7 Miles.

STARK TREES
BEARFRUIT
STARK TRADE MARK



CROSBY SEEDLINGS.

SELECT SEEDLINGS.

CROSBY SEEDLINGS, Hardest of All,

and often bear the 2ND YEAR. Next hardest, Summer Snow, always TRUE from seed. Next, Elberta Seedlings. These 3 grand SEEDLING peaches will **bear further north than any budded peach known.** Seed from same 600-acre orchard as Elberta Seedlings; and we offer a similar **\$300 Reward**, etc.

SELECT SEEDLINGS—Grown from seed of such selected fine peaches as reproduce with slight variations. In hardness, they average next to Elberta Seedlings, and should bring many good kinds. **\$100 Reward** for each worthy new sort.

Pres't T. T. Lyon: "In my neighborhood in Mich., a grower has for years planted seedling peach orchards from **SELECTED SEED** and he now has some thousands of trees and the peaches pass readily among experts as that of budded trees."





SNEED, Earliest of All

Ten to 15 days **earlier than Alexander**; is **not** of same type, but of the valuable Chinese Cling family, to which belongs so many of the finest peaches—Elberta, Belle of Ga., etc.,—hence **FREER FROM ROT**. Being the **first peach**, it has always sold at high prices, \$4 to \$8 a bushel.

“Earliest Peach Known.” Exceptionally desirable. Recently brought to notice, but has been grown for some years in localities, and its **merits as a money maker** fully established. Will be a **most extensively planted** new sort.



TRIUMPH; bears young, yields immense crops.

OLD OAK PROCESS
WHOLE ROOT TREES
PAT. D. TRADE MARK

STARK TREES
BEAR FRUIT
STARK TRADE MARK



GREENSBORO.



ALEXANDER.



TRIUMPH.

STARK TREES
BEAR FRUIT
STARK TRADE MARK

Rochester Fruit Co.
 ROCHESTER, N.Y.

GREENSBORO, a great beauty; largest of all early peaches; ripens with Alexander, **twice as large**, a better peach.

ALEXANDER, for 20 years a leader, will soon drop out. For now comes **STEED**, better, and **10 days earlier**; **GREENSBORO**, **twice as large** and a better peach, and the **TRIUMPH**, larger, better and a **yellow free**.

TRIUMPH, the long-sought new extra early **YELLOW freestone**, ripening with Alexander. Larger, more showy color, better quality. Hardy, blooms late, great cropper. J. H. Hale has planted 10,000 Triumph trees.

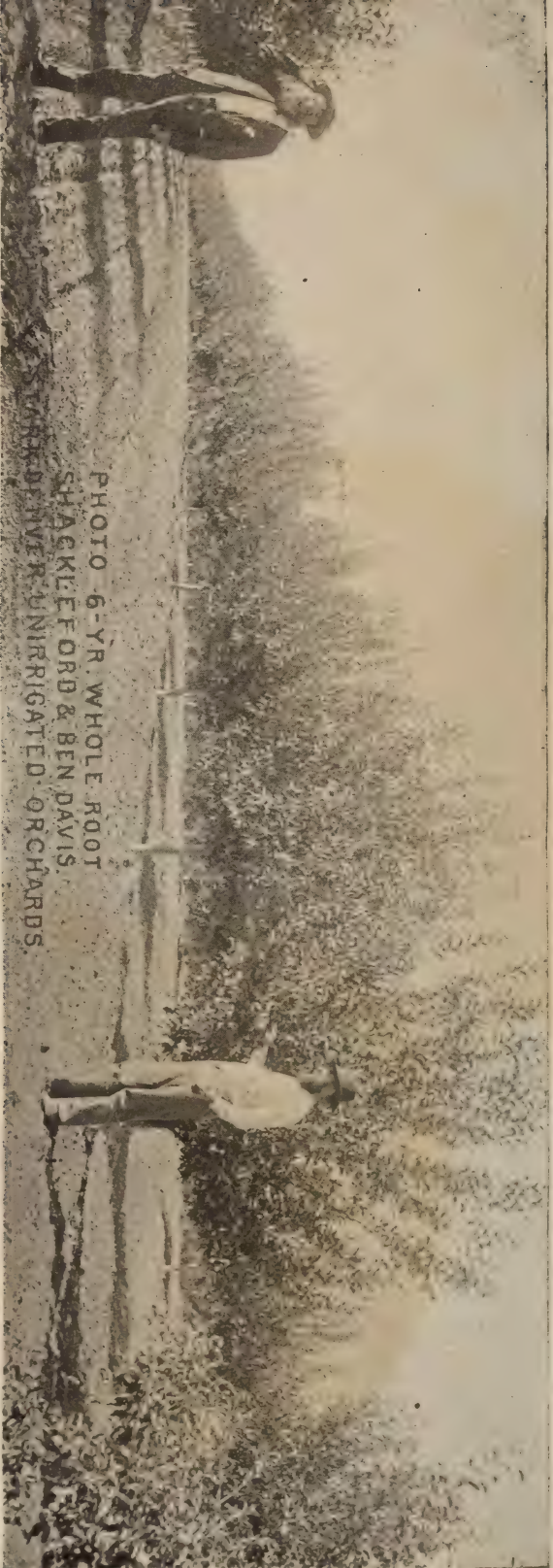


PHOTO 6-YR. WHOLE ROOT
SHACKLEFORD & BEN DAVIS.
STARK OAK RIVER UNIRRIGATED ORCHARDS.

STARK TREES
BEARFRUIT
STARK TRADE MARK

OLD OAK PROCESS
WHOLE ROOT TREES
PATO TRADE MARK

STARK TREES BEARFRUIT

STARK TRADE MARK

MAMIE ROSS.—HALF-CLING

BISHOP
EARLY.

LEWIS SEEDLING.

Stecher Lith. Co.
ROCHESTER, N.Y.

Mamie Ross Half Cling, "finest early cling;" sdg. of Chinese Clg., almost as large, six weeks earlier—ripe with Ey. Rivers. Of Great Value.
Bishop Early, two weeks ahead of Mt. Rose. Equally fine every way. A valuable market sort, sure and prolific.
Lewis Sdg., is one of the hardiest, surest and most profitable peaches known in Mich.—where it originated in 1876, and has never yet failed.



STARK TREES
BEARFRUIT
STARK TRADE MARK

OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK

STARK TREES **BEARFRUIT**

TRADE MARK



Yellow St. John (May Beauty, Fleitas, etc.), an indispensable sort—absolutely nothing to take its place. Nearly the size of old Crawford Early, but more productive, earlier, better quality, more delicate coloring.

Mountain Rose, rich, sweet, melting. One of the greatest favorites. Excellent for both home and market

Champion ripens with Large Early York (Honest John), but it is much larger and far more valuable because **hardy** and a surer bearer. Size, quality, etc., much like Oldmixon.



STARK TREES
BEARFRUIT
STARK TRADE MARK

OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK

STARK TREES BEARFRUIT

STARK TRADE MARK

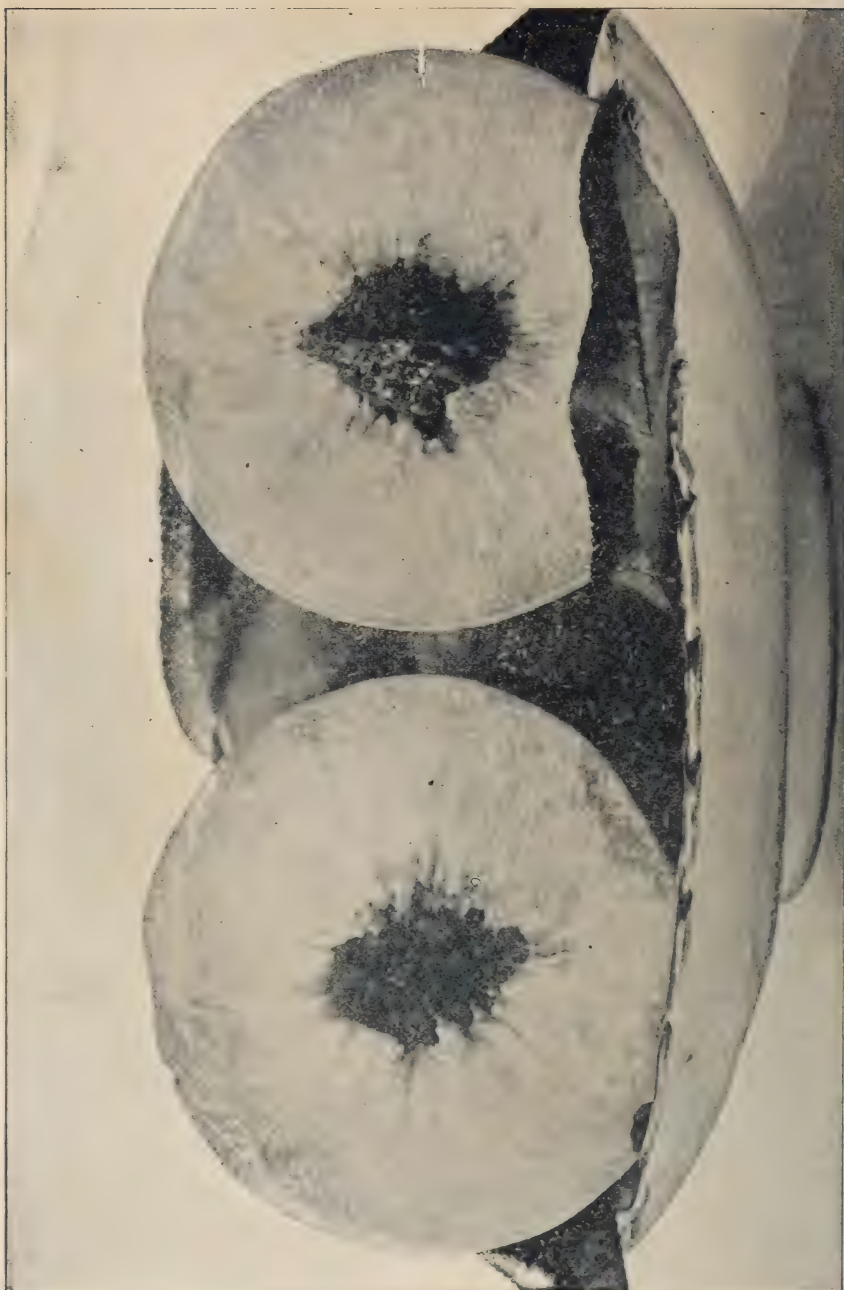


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STARK TREES
BEARFRUIT
STARK TRADE MARK



WASHINGTON (Future Great.)

OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK

DIARK TREES
BEARFRUIT
STARK TRADE MARK

BELLE OF GEORGIA

CRAWFORD EARLY
 IMPROVED

WASHINGTON, FUTURE GREAT.

Belle of Georgia, a grand market peach, second only to Elberta—these two stand first in the N. Y. market for quality and price. A grower from Arizona saw Belle of Ga. growing and saw the market returns, then wanted 100,000 trees. Decidedly a finer peach than Family Favorite, Thurber or Chinese Free—the red is redder, the white whiter.

Crawford Early Improved (true Mary Choice) is of same season, but surpasses Crawford Early, Reeves Favorite and others of the Crawford E'y family in quality, hardiness and full-bearing.

Washington, Future Great, the Best of peaches; our favorite for high quality. Not sweet like Summer Snow, but exceedingly rich, juicy, vinous and luscious. Bears very full yet is very large; has proven one of the best paying peaches. Very small seed.



OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK

STARK TREES
BEARFRUIT
STARK TRADE MARK

35
ELBERTA PEACHES

STARK TREES
BEARFRUIT
STARK TRADE MARK

OLD MIXON FREE
IMPROVED.



Rochester Litho. Co.
ROCHESTER, N.Y.

OLDMIXON FREE IMPROVED (Mountain Rare-ripe)—Like Oldmixon every way, but **larger, higher color, more productive** and brings **25 per cent more money.**

ELBERTA grows in popularity as the years roll by; **no other peach** ever made an equal record. Most desirable of all yellow flesh sorts. Large, golden yellow, with red cheek—high color, one of the darkest of all; juicy and high flavor.



THE LATE WM. STARK AT THE AGE OF 27.—FROM A DAGUERRETYPE
TAKEN IN 1853.

"THE TOUCH OF A VANISHED HAND."

To the good judgment and wisdom of our honored and lamented father, the late Wm. Stark (dec'd 1880), more than to all others, is due the success of these Nurseries. The broad and sure foundation long ago laid, was chiefly of his building, he having succeeded his father while yet but a mere boy of 14 years. For more than 40 years he successfully labored to advance Horticulture in this, his native State. His cherished wish was to place his sons in the business he had always loved;—we are glad his wish that we should be nurserymen has been fulfilled, if not exactly in the way he had planned. First came the panic of '73—and misfortune. Then too much he indulged his fond pursuit, and in his almost successful efforts to dispel the clouds that lowered upon our house, sacrificed first health, then life itself.—

"Oh what a noble heart was here undone,
When Science's self destroyed her favorite son."

We cannot hope to render any adequate tribute to his revered memory—we do what we can. Perhaps we cannot say anything so well or that would be half so expressive as the brief tribute paid by the friend who had known him long and well—Pres't J. C. Evans: "William Stark was one of the best men I ever knew."

As to the dark times—not one of us now regrets or undervalues the experiences through which we have passed; for only too well we know how precious "a jewel the ugly toad, adversity, wears."

The treatises by William Stark, published in Mo. State Hort. Reports, 1867 to 1878, and elsewhere, have not yet lost their force. Nor will they. For the principles advocated are not for a day, nor an age, but for all time.

BEQUETT MAMMOTH FREE.

STARK TREES
BEARFRUIT
STARK BRAND

Rochester Fruit Co.
 ROCHESTER, N.Y.

GOLD DUST CLING.

BEQUETT FREE, a mammoth peach of **superb quality**. **Sure bearer**, even at Springfield, Ill., where most sorts fail; highly recommended there by **BENJ. BUCKMAN**, as "a fine peach for **home or market**." **MR. ROSS**, of Ill., in '95, **netted \$10 each** from 10 Bequett trees; people there wild for more trees.

S. W. GILBERT, Mo.: "When I wanted a **delicious dish** of peaches and cream, or a fine one to eat, I invariably took a Bequett. The juiciest freestone I ever saw and one of my **very best shippers**."

GOLD DUST, "Best cling peach I've ever seen," says **Pres. Evans**. "Finest canning peach I ever saw," says **S. W. Gilbert**. Grown largely for market, by **Olden Fruit Co.** and others. **Dark red cheek; unusual fine quality.**"

STARK BROS & NURSERIES

G.M. STARK, Pres.
E.W. STARK, V. Pres.
W.D. STARK, Sec. & Treas.

LOUISIANA, MO.
ROCKPORT, ILL.

ORCHARDS (40,000 ACRES)
IN 24 STATES.

"A corner of Stark's DENVER UNIRRIGATED ORCHARDS -
Looking East from WATER TOWER."

"JUST ACROSS THE FENCE-LINE A DESERT!"
- U.S. POMOLOGIST VAN DEMAN.

STARK TREES BEAR FRUIT - PLANTED WOULD HAVE BORN 70 YEARS -
"THEY LIVE LONGER AND BEAR BETTER." - SEC. MORRISON.



"NOT A WEED
-100 ACRES."

STARK
DENVER
UNIRRIGATED ORCHARDS - 6-YR. WHOLE
ROOT TREES

ON THE SITE
NOW STAND
PACKING HOUSES
C. G. A. A., & C.

OVERFLOW FROM PACKING HOUSES, LOUISIANA, MO.

STARK TREES
BEARFRUIT

OLD OAK PROCESS
WHOLE ROOT TREES

STARK TRADE MARK

STARK TRADE MARK



CRAWFORD LATE
IMPROVED.

STARK TREES
BEAR FRUIT


POOLE FAVORITE.

Rochester Nur. Co.
ROCHESTER, N.Y.

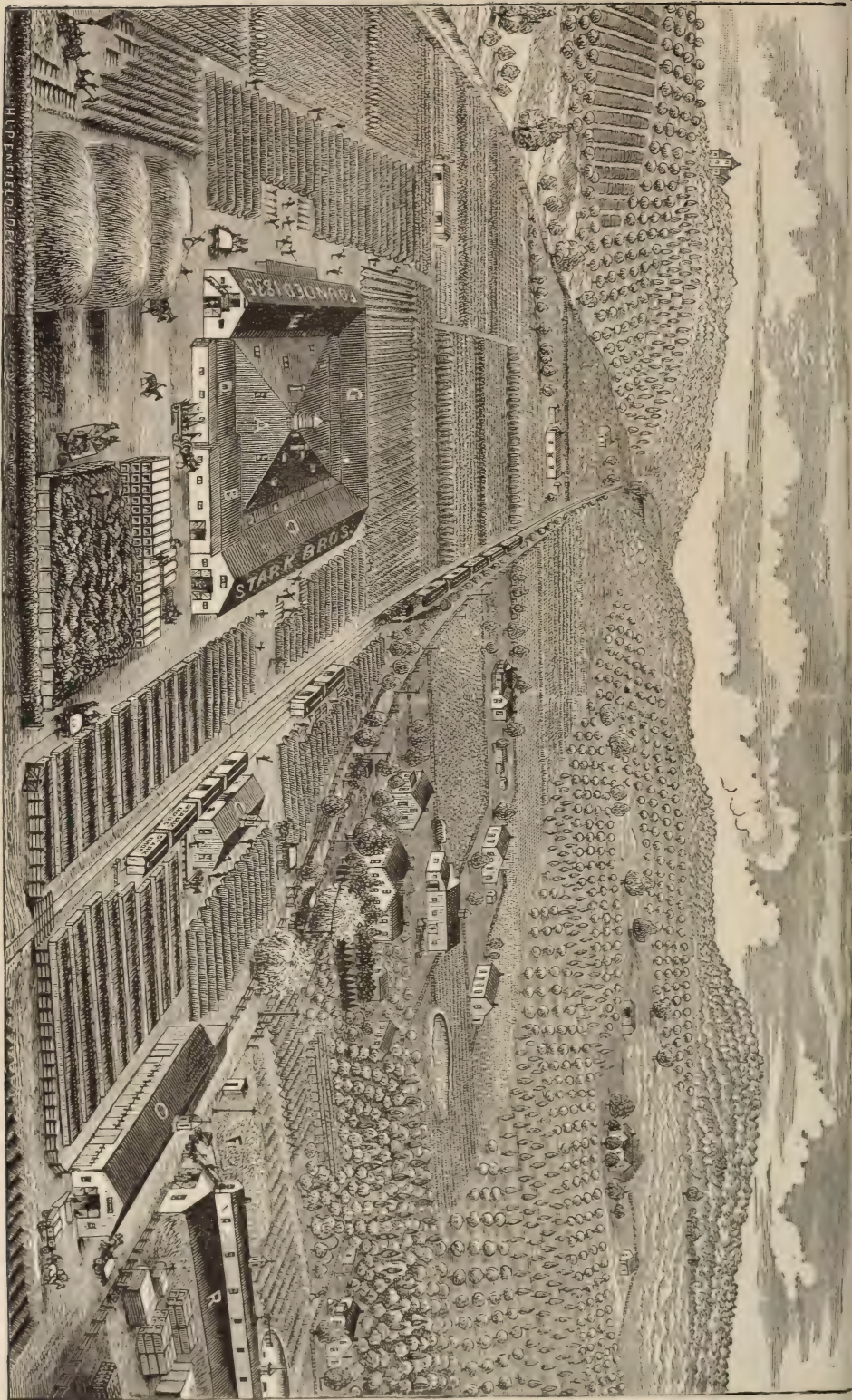
CRAWFORD LATE IMPROVED (Chairs Choice)—C. Late, Prize, Brandywine, Globe, Chairs Choice, etc., ARE ALL SIMILAR, but Chairs is a few days later, **hardier** and a **better bearer**; is **taking the lead** of every known variety of the Crawford Late family. Away **AHEAD OF GLOBE in all respects.**

POOLE FAVORITE resembles Crawford Lt. but **larger**, richer color, **better bearer** and **ten days later**. A. W. Poole, the great Ark. orchardist, has 7,000 trees and says it is his **great money maker**, excelling Elberta. He adds:

"The **best peach** in Arkansaw. Don't rot and the peaches color on the under branches almost as well as in the sun. **Average** $3\frac{1}{4}$ in. diameter. If I can only get another variety equal in value, and two weeks earlier, I don't want anything better."

 **GROWN BY NO OTHER NURSERY**; our stock is direct from Mr. Poole's bearing trees.

PART OF STARK PACKING HOUSES AND HOME GROUNDS.:





STARK TREES
BEARFRUIT
STARK BROS. N.Y.

PICQUET
LATE.

Rochester Litho Co.
ROCHESTER, N.Y.

MAMMOTH
HEATH CLING.

PICQUET LATE, after 26 years test proves the most profitable late yellow peach. Superior to Salway. Strong grower, sure heavy bearer. Rich, sweet, high flavor.

MAMMOTH HEATH CLING, the largest and most superb of the entire Heath cling family. Tender, melting, exceedingly juicy, with a rich, high, most luscious flavor.

J. W. Kerr, the great peach authority, says: "Am growing Mammoth Heath in preference to Wilkins, Ringgold, etc., because it excels in size and in smooth clean surface."





Houghton, "Old Reliable," produces more berries than any other. "Industry and other English gooseberries mildew and are not hardy enough. Downing and Smith lack vigor and fruitfulness, but **Houghton** is a standby—among gooseberries like **Concord** among grapes."—*Gardening*.



GOLDEN
QUEEN.

COLONIAN.

LIBERT
Queen
the
market.

GAUL
PERPET



OUR PECOS VALLEY ORCHARDS

Our business as nurserymen and orchardists brings us into close touch and acquaintance with the various regions, not only in the U. S. but throughout the world, where the fruits of the temperate zones are grown. As nurserymen we produce millions of trees for tree planters everywhere, and as orchardists we have planted orchards in many widely separated fruit growing sections. Our orchards aggregate some millions of trees, covering many thousands of acres, giving us doubtless many times over **the largest orchard interests in the world.**

The bulk of these orchards is in the newer central fruit growing States, largely in Missouri and Illinois, with many in more than twenty-four other States. But with these several thousand orchard farms, we still felt the need of finding a more perfect region, especially adapted to growing keeping apples, a region where we could secure early bearing annual crops with no off years, and approximate perfection in size, color, quality. Another requirement was a locality where facilities were good for supplying the export trade, by way of the Gulf ports, of South American countries and Europe, also the home trade of the South. With Pres't Earle we studied the problem. We concluded we would find the long-looked-for land in the Valley of the Pecos. So we went forth to spy out this promised land. The sequel is told in the following from the Denver Times-Sun, Aug. 23, '94:

COLORADO SPRINGS, Colo.—(Special).—There was organized here yesterday a company, the operations of which are destined to have a most important bearing upon the Pecos valley of New Mexico, in which several of our prominent capitalists are largely interested. The name of the organization is the Pecos Valley Orchard Co., and its object is ultimately to establish in the Pecos valley the largest apple orchard in the world. Board of Directors: Clarence M. Stark, Wm. P. Stark, Parker Earle, Jas. J. Hagerman, Geo. R. Buckman, Arthur S. Goetz and Herbert Hagerman. Beginning with a capital of \$200,000 for the first 2000 acres, the expectation is to increase yearly at this rate or even faster until 10,000 acres or more shall have been planted.

This enterprise is the outcome of a recent visit to the valley of Mr. Parker Earle and the Stark Bro's, gentlemen of national reputation in horticultural and pomological matters. Mr. Earle is to-day the most widely known horticulturist in the U. S. He is president of the Am. Hort. Soc., having held that position since the society's organization in 1880.

The firm of Stark Bro's, with headquarters at Louisiana, Mo., was established in 1825. As the result of three generations of successful endeavor, they now rank among the foremost nurserymen and fruit growers of the United States, while their fruit nursery is the largest in the world.

Parker Earle Knows Trees—and he has planted more than 70,000 Stark trees the last 14 months.—Pres't Parker Earle, Roswell, N. M., Nov. '94, writes as follows: Trees unloaded, planting begun. They are a splendid lot.

Later, May, '95: Our trees are doing finely. Lost a good many of the small size; never want any more small trees for planting here. But we have the most valuable orchard in the world growing right here. I wish you could see how well the trees look. You "boys" need fear no competition—your trees are **ABSOLUTELY BEST.**

Later, June, '95: As to orchard growing here, (1) It is by far the most difficult place to make trees live and grow well the **FIRST** year. (2) After that there is less trouble, annoyance, uncertainty, here than any other place, and much surer returns. This is a very valuable orchard, more so by far than any other in the world. It is worth a million dollars if properly cared for.

Later, Nov., '95: We are planting the last car load of trees. They are elegant.

Later, June 1, '96: E. O. Faulkner, Vice Pres. and Gen. Mgr.: Have just visited the P. V. O. Co. orchards. They are in excellent shape and receiving fine cultivation. Pay us a visit. I realize that you have large interests here now which I trust will be larger in future.

STARK TREES
BEARFRUIT
STARK TRADE MARK

Parker Bros., Wholesale Fruits, Chicago: Our Southern Mo. orchard, 40,000 trees, for which you furnished the stock, is in fine shape. All trees living. Williamson & Mather, Lawrence Co., Mo., write us: Trees arrived in perfect order. Rec'd the HIGHEST PRAISE. People all around are enthused. **Later**: We take special pleasure in writing you that our 16,300 Stark O. O. P. Whole Root trees are **EVERY ONE GROWING.**



STARK TREES
BEARFRUIT
STARK TRADE MARK

Rochester Litho. Co.
ROCHESTER, N. Y.

WHITE GRAPE CURRANT, the largest and finest white variety.
FAY PROLIFIC, most prolific of all. Compared with cherry currant, Fay is equal in size, better flavor, much less acid, five times as prolific, clusters 5 inches long, berries **nearly as large as Delaware grapes.**



PAY-DAY SCENE AT THE "HOME NURSERIES"—300 MEN IN LINE.

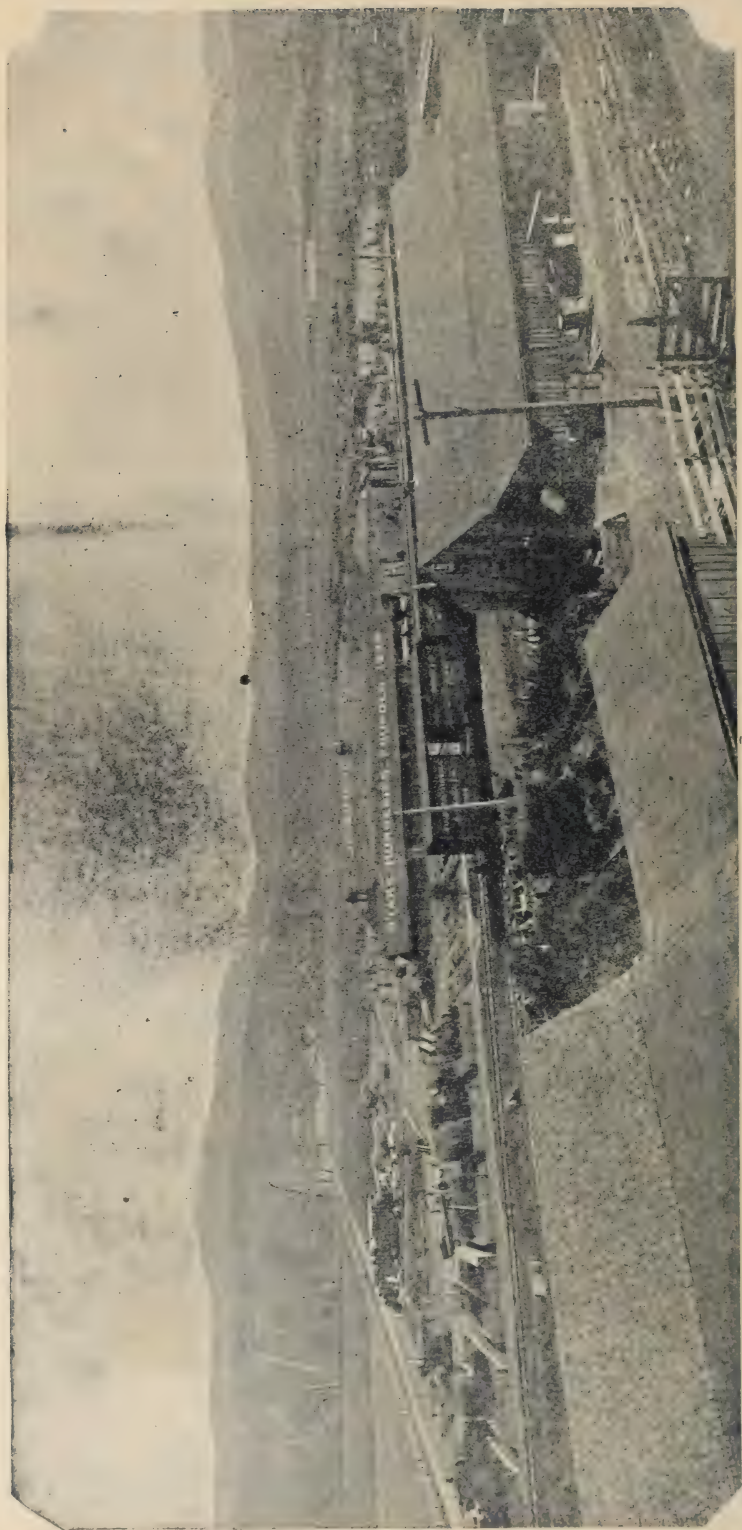


EARLY KING.

EARLY HARVEST.

SNYDER.

Early King, our favorite blackberry. Perfection in quality; large, hardy, prolific. People won't even look at Early Harvest if we have Early Kings in same load.
"Finest blackberry I have yet seen."—Prof. G. H. French, Ill. Exp. Station.
Early Harvest, fairly hardy, exceedingly productive. Valuable for market, fair for home use.
Snyder, extremely hardy. Wonderfully prolific. Sweet, juicy, good quality, and without core when fully ripe.



PART OF PACKING HOUSES.

STARK TREES
BEARFRUIT
STARK TREES BEARFRUIT

OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK



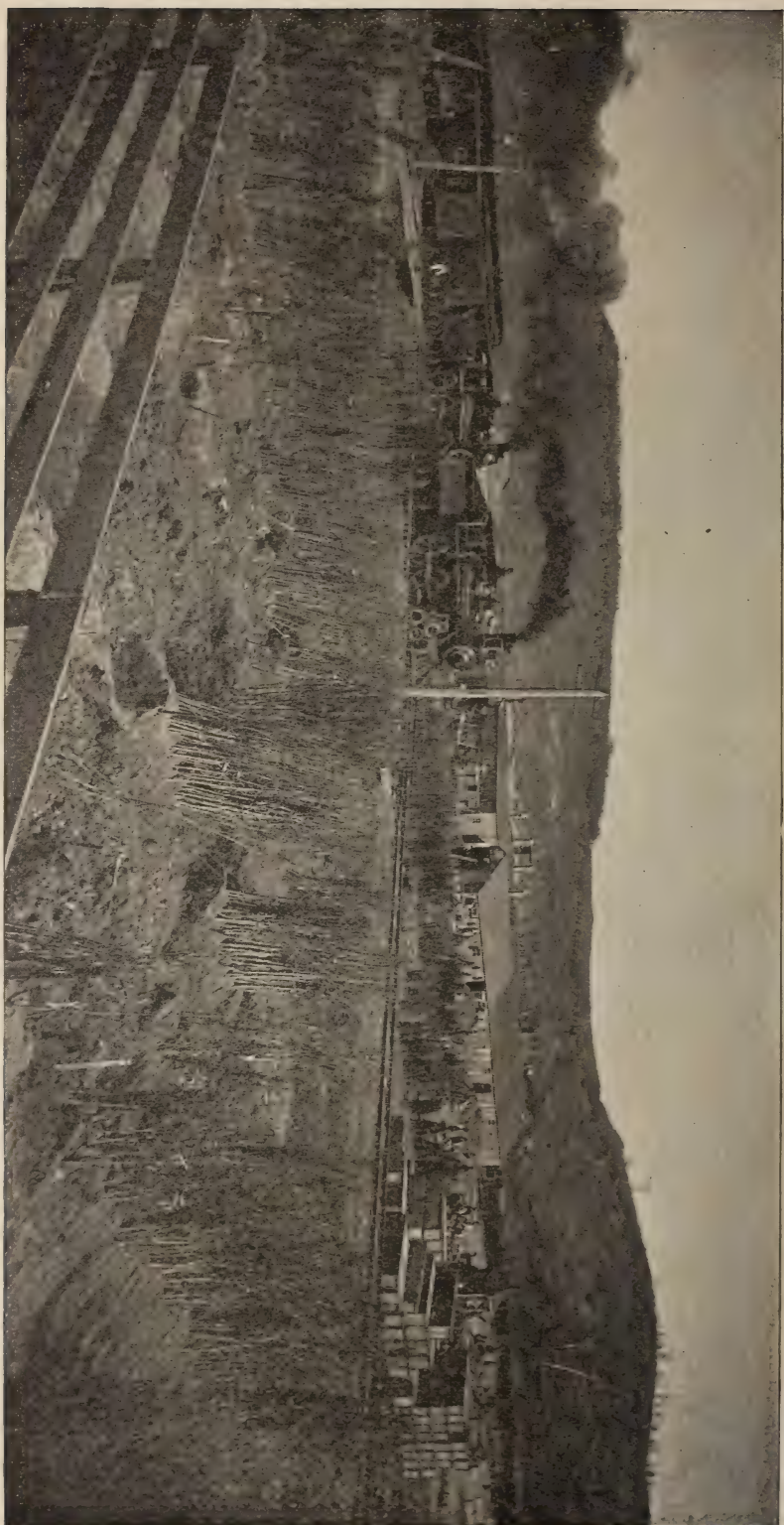
STARK TREES
BEAR FRUIT
STARK TREES, INC.

DIAMOND

**Finest, Hardest,
Earliest** white
grape. Quality
equal to Delaware;
makes good raisins. Test-
ed ten years, and endured
coldest winters uninjured.

If you plant but two
grape vines, plant Dia-
mond and Worden, the
**best two hardy
grapes in America.**

Rochester Fruit Co.
ROCHESTER, N. Y.



PACKING GROUND VIEW—Instantaneous Photo.



BRIGHTON

Best red grape. Rich, sweet, highest quality—every grape a bag of juice. Ripens early and bears well, but **only when planted near Diamond, Warden**, or other sorts for **cross-pollination**.



NIAGARA

Not of finest quality like Diamond, nor nearly so early and hardy; yet Niagara is so far the most popular white grape. Productive, profitable for market; good shipper and keeper.



CONCORD

Does well everywhere, but is giving way to **Warden**, its finest seedling.

Warden is the **KING Black Grape**. Larger than Concord, a week earlier, better quality, enormous bearer.

STARK TREES
BEARFRUIT
STARK TRADE MARK

Rochester Nurseries Co.
ROCHESTER, N.Y.



A Glance into Main Grafting House, (30 by 80 Ft.) where, and in Annex, (20 by 80 Ft.), are employed 125 People.

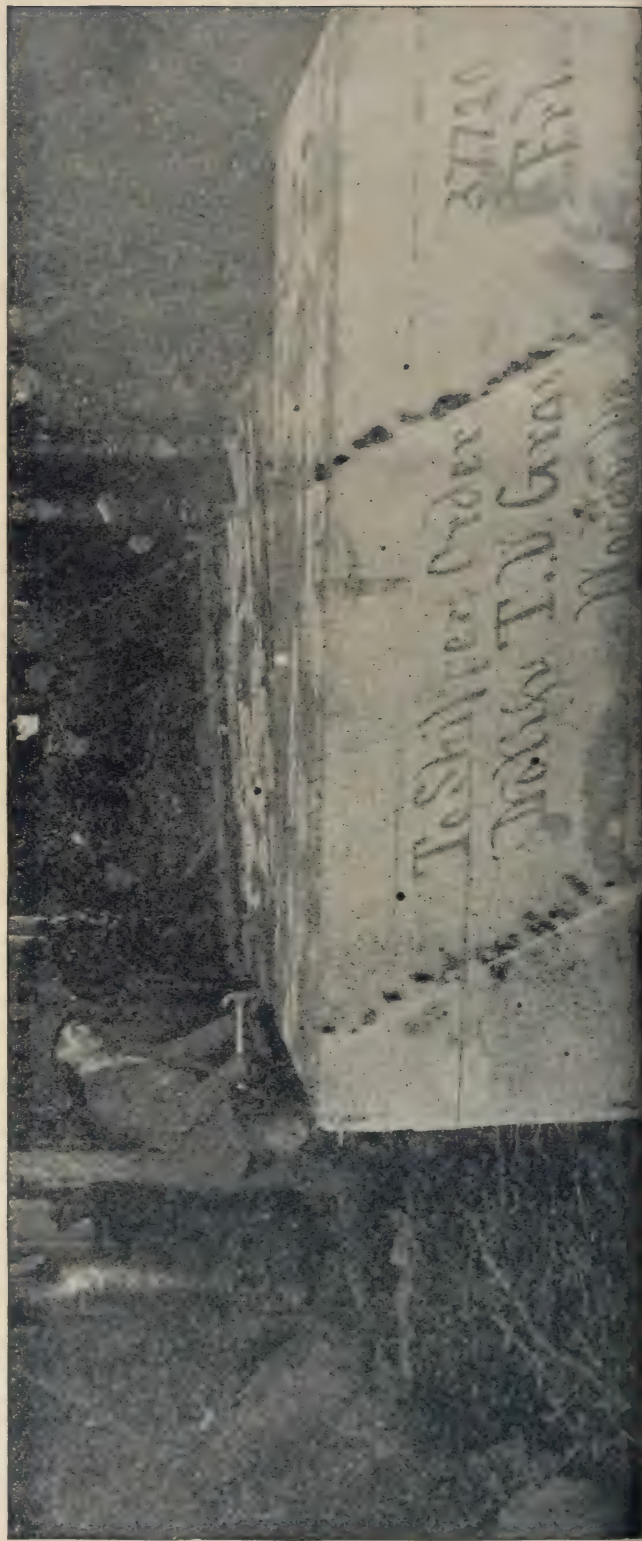
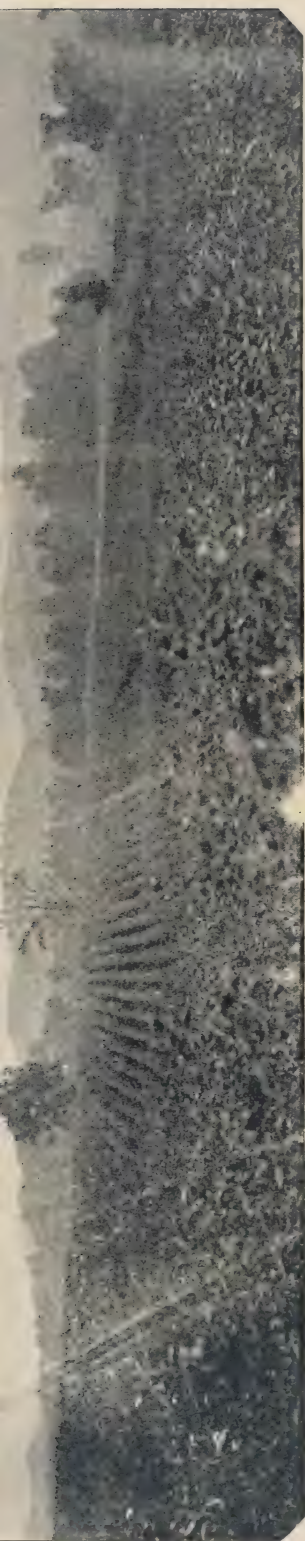




Rose Tree of China (P. triloba). "A Tree full of Roses."

A rare and fine importation from China. Entirely hardy, "takes care of itself," and, when budded on hardy standard plum stock, makes a most charming little tree. Blooms in April, long before roses, and every branch is thickly set with the delicate pink flowers, resembling small roses.

"A Conspicuous Object in early spring when crowded with beautiful blossoms. Has special value for small grounds; should be brought to the front."—*Mo. Hort. Soc.*





Carolina Poplar, the finest tree for quick shade. Very desirable for street planting. Endures the smoke and gas of cities better than any other tree. **Easy to live**, rapid grower, pyramidal form, perfectly **hardy and healthy, not troubled with insects**; large, handsome glossy leaves. Does not sucker or lift up the pavement.

The Tree for Everybody.



Packing Houses, etc., looking South-Eastward.

STARK TREES
BEARFRUIT
STARK TRADE MARK



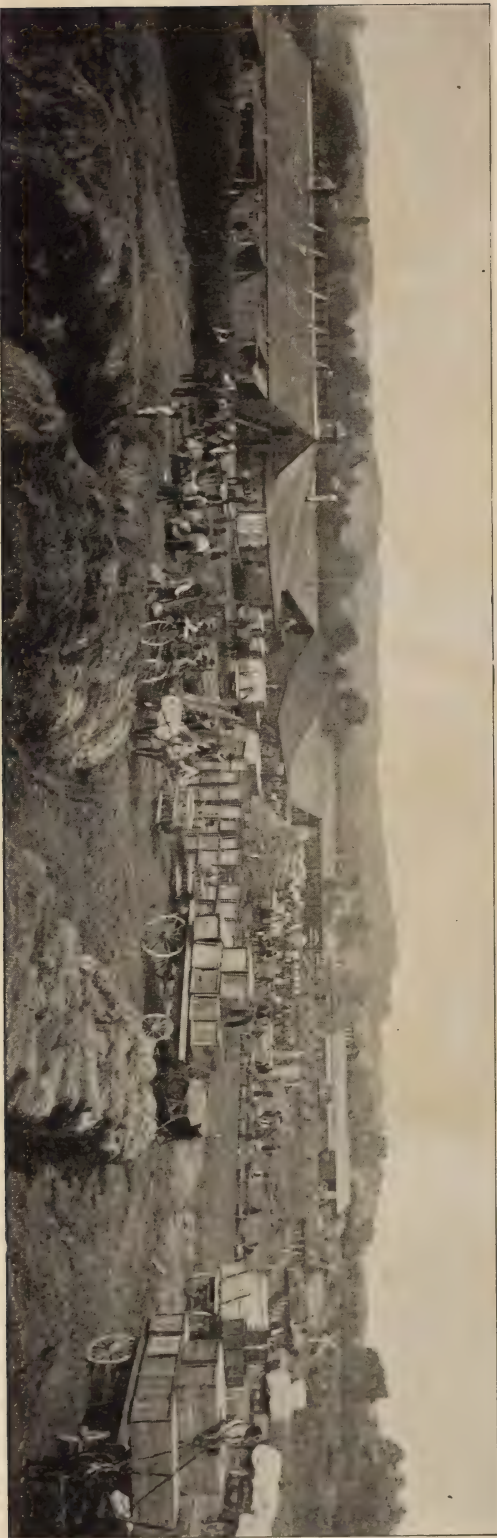
Rochester Nurseries Co.
ROCHESTER, N.Y.

Bechtel Double Flowering Rose Colored Wild Crab Apple blossoms have the EXQUISITE PERFUME of common, wild crab apple blossoms, and, besides, are RED AND DOUBLE—resemble DELICATE PINK ROSES.

A new and rare ornamental tree of great beauty and merit—**HARDY** as an oak, as are the common wild crab apples, and of wide adaptability to various soils. Does not bloom until leaves are fully developed which adds greatly to its beauty.



One of our Rockport blocks showing a section of Mile-long rows of 1-yr. trees.





STARK TREES
BEARFRUIT
STARK TRADE MARK

Rochester Fruit Co.
ROCHESTER, N.Y.

CRIMSON-LEAF PLUM

Finest of all red or purple-leaved trees; leaves hold their bright crimson red color all season long. Has lovely white flowers, and bears a very good plum—which is also bright crimson from the time it is formed, until ripe.



Digging Whole Root and piece root 2-yr. Ben Davis, grown side by side with the same culture; the 2 tree-diggers, 4 mules to each, have easy work on pe-rts. The 3rd digger with 6 finest Missouri mules, finds it "hard sleddin'" on Wh. Rt. trees.

(In the extreme distance at right center is where, in 1816, the late Judge Stark, then a young man fresh from "Old Hickory's" New Orleans campaign, laid the foundation of these Nurseries.)



Stecher & Co.
ROCHESTER, N.Y.

Spirea Van Houttei, the finest and most showy of all Spireas, and one of the **hardeniest** and very best flowering shrubs. Entirely "**at home**" everywhere, even on the **bleakest western prairies**. We cannot say too much for it—must be seen in full flower to appreciate its **wondrous beauty**. Somewhat like Bridal Wreath, but far better than that old beauty.

An upright grower, with long, slender branches, which droop gracefully with their weight of foliage and flowers. Flowers pure white, **in great clusters**, forming **cylindrical plumes**, two to three feet long. When in full bloom, a "**perfect snow-bank or fountain of flowers.**"



View in 160-acre Field of Apple Trees.

LILAC—Purple and White

White Lilac is like the purple with exception of having pure white flowers.

N. B.—This is not the way 1-yr. or 2-yr. "mini-size trees" are produced—decidedly not! Closely bedded-out piece-root grafts can never make trees of such health and vigor in 1 year.

The way one-year Standard Pear Trees grow in the STARK BRO'S NURSERIES—A 10 acre field of them. In the distance is caught a glimpse of a 13-acre field of Dwarf Pears.





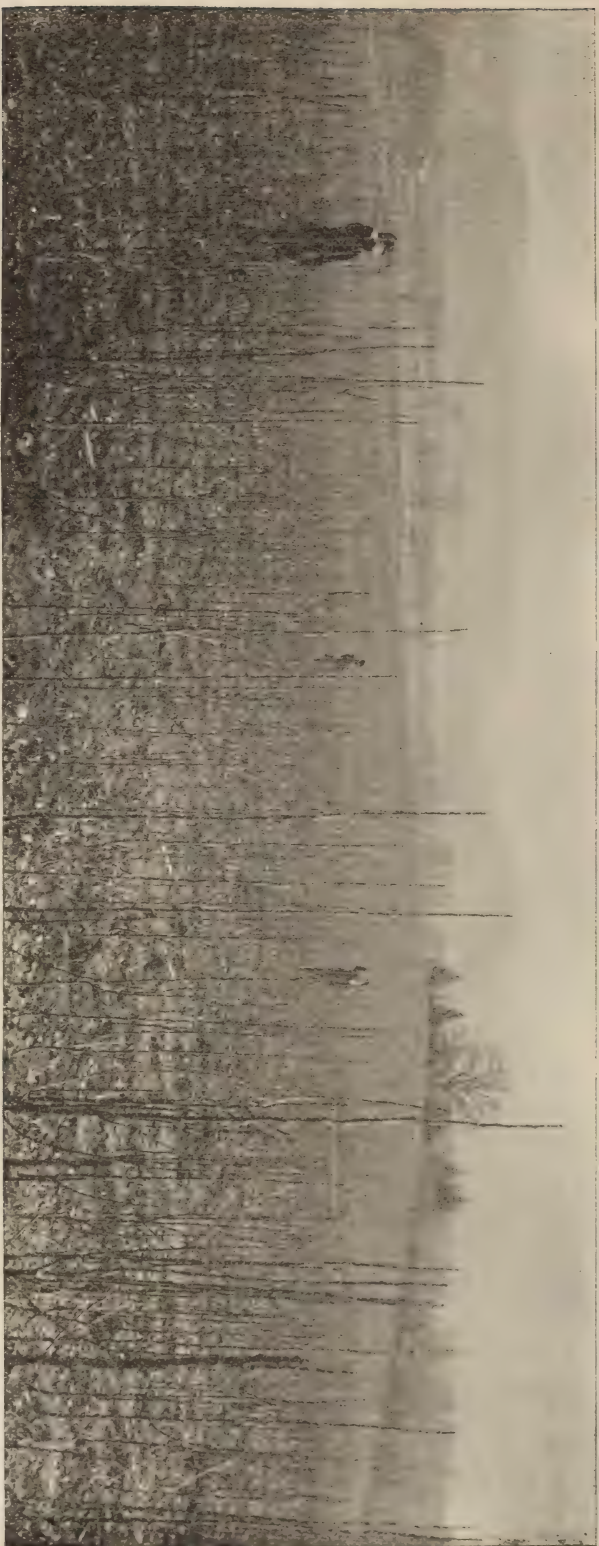
**STARK TREES
BEARFRUIT**
STARK TRADE MARK

Rochester Filha Co.
ROCHESTER, N.Y.

HALL'S NEW FRAGRANT JAPAN HONEYSUCKLE

BEST BLOOMER OF ALL. A vigorous, ALMOST EVER-GREEN sort from Japan, with flowers pure white at first, later changing to cream and buff; exceedingly fragrant. Rapid grower, blooms FROM JULY TO DECEMBER.

Makes the very BEST SUBSTITUTE FOR GRASS under trees and other shaded places. SPREADS RAPIDLY when not trellised.

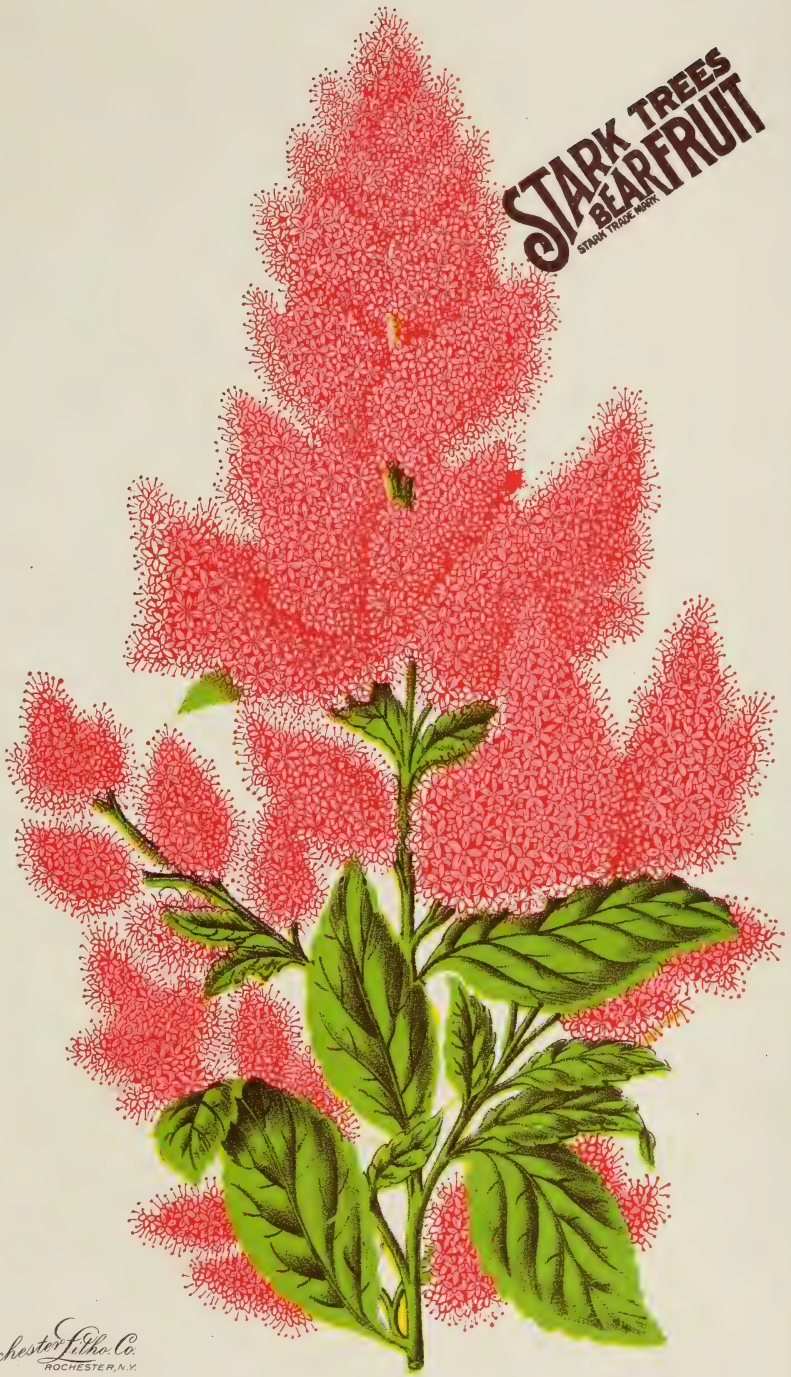


Another 10-acre field of 1-year Standard Pear Trees.

STARK TREES
BEARFRUIT
STARK TRADE MARK

OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK

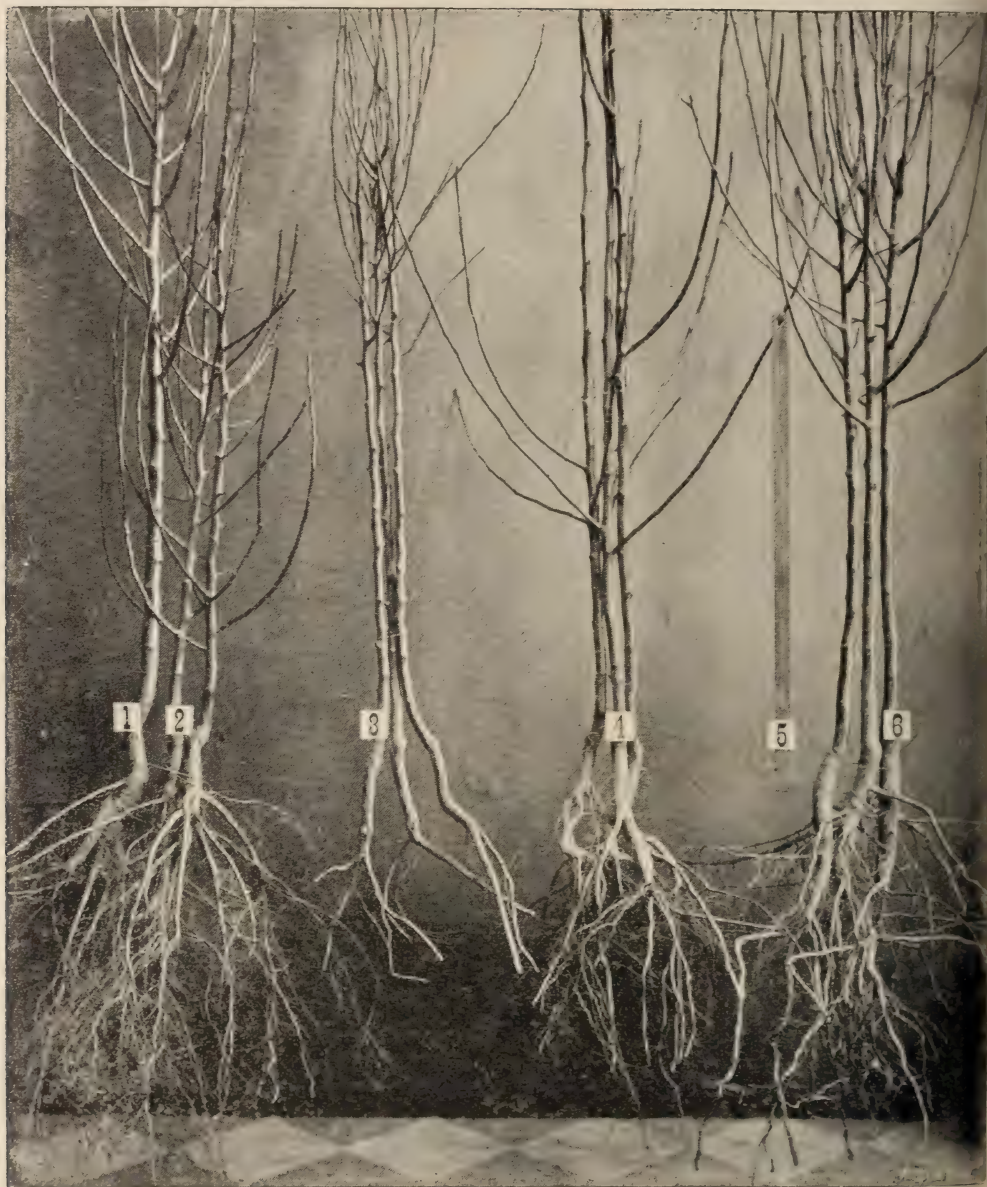
STARK TREES
BEARFRUIT
STARK TRADE MARK



Rochester L. Co.
ROCHESTER, N. Y.

SPIREA BILLARDI

A very showy shrub. Flowers rose colored, in great spikes.
Hardy, and easily grown; requires but little room.
Blooms nearly all summer.



- 1.—Garber, 2-yr., XX O. O. P., Whole Root.
- 2.—Two Kieffer, 1-yr., O. O. P., Whole Root.
- 3.—Three Flemish Beauty, on **Le Conte** Piece-root stocks—as sent out by—
- 4.—Three Garber, 1-yr, O. O. P., Whole Root.
- 5.—Yard Stick—one and one-sixteenth inches *Wide*.
- 6.—Three Kieffer, 2-yr., O. O. P., Whole Root.

The above except the trees on Le Conte cuttings, were grown in our Nurseries.



STARK TREES
BEARFRUIT
STARK TRADE MARK

Rochester Silho. Co.
 ROCHESTER, N.Y.

HYDRANGAEA (H. PANICULATA GRANDIFLORA).—

One of the finest flowering shrubs, blooming from July to September, when very few shrubs are in bloom. It blooms the first year and can be grown anywhere. Hardy and vigorous. The flowers are white, borne in immense pyramidal panicles nearly a foot in length. The plants should be CUT BACK EVERY SPRING one-half of the last season's growth.

OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK

STARK TREES
BEARFRUIT
STARK TRADE MARK



Digging O. O. P. Whole Root 2-Yr. St'd Pear Trees by STEAM Power—Used no where else but in "THE GREAT MO. & ILL. NURSRIES,"
Mississippi River Bridge and Illinois Shore in Distance.



Rochester Nurseries Co.
ROCHESTER, N.Y.

QUEEN OF PRAIRIES

Best of all HARDY climbing roses. Bright rosy red, frequently with white stripes on petals; blooms in clusters; a vigorous and rapid grower.



"June Time is Rose Time." View in a Twenty-Five Acre Field of Roses.



Mme. Plantier, White Hardy or Cemetery Rose, the best of all hardy white roses. A usual name is Cemetery Rose, chiefly because of its popularity for cemeteries. Is beautiful also as single plants and for rose hedges. So hardy it gets through our severest winters without injury. Flowers pure white and borne in very large clusters, making a great display.



Another Field of Roses,



Shepherd & Co.
ROCHESTER, N.Y.

RED MOSS, HENRY MARTYN

One of the sweetest and most beautiful roses, and the **strongest grower, healthiest and hardiest** moss rose we have ever grown. Deliciously fragrant. Buds almost hidden with lovely green moss.



SPRINGDALE.



FROM PHOTO.

STARK TREES
BEARFRUIT
STARK TRADE MARK



EARLY COLTON.



YELLOW TRANSPARENT.

EARLY COLTON, very best early apple. Good to eat ten days before Early Harvest, and a better apple.

YELLOW TRANSPARENT, finest apple of its season. Best summer apple in Minnesota, fine in Texas, good everywhere. An enormous bearer, and bears at 2 years. Dwarfish grower; use as a filler, or plant close—12 to 16 ft. Excels E'y Harvest; earlier, larger, bardier, and better everyway than Tetofsky.

Stark Bros. Co.
 BOSTON, MASS.



STARK BROS
DENVER UNIRRIGATED ORCHARDS.
6-YR. WHOLE ROOT SHACKLEFORD.



STARK TREES
BEARFRUIT
STARK TRADE MARK

OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK

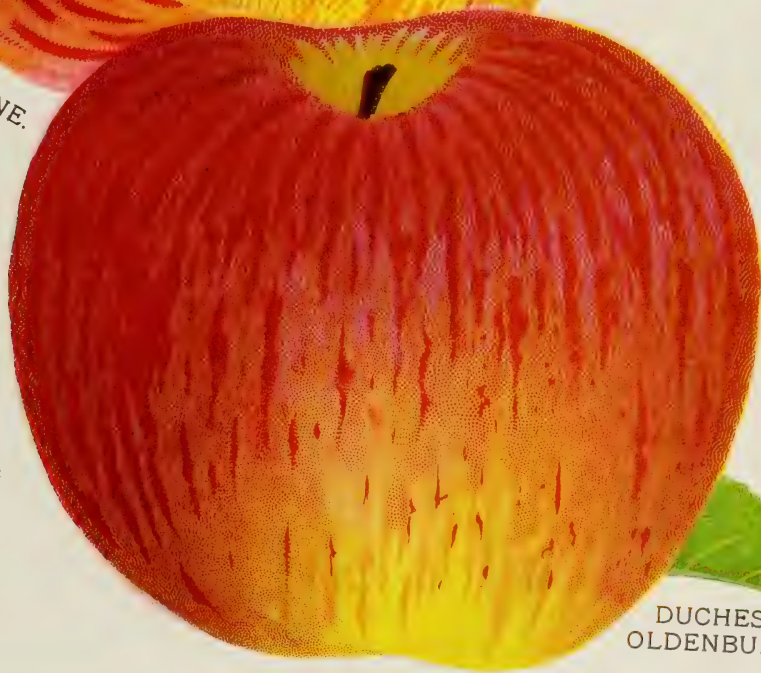
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RED ASTRACHAN.



BENONI RED JUNE.



DUCHESS
OLDENBURG.

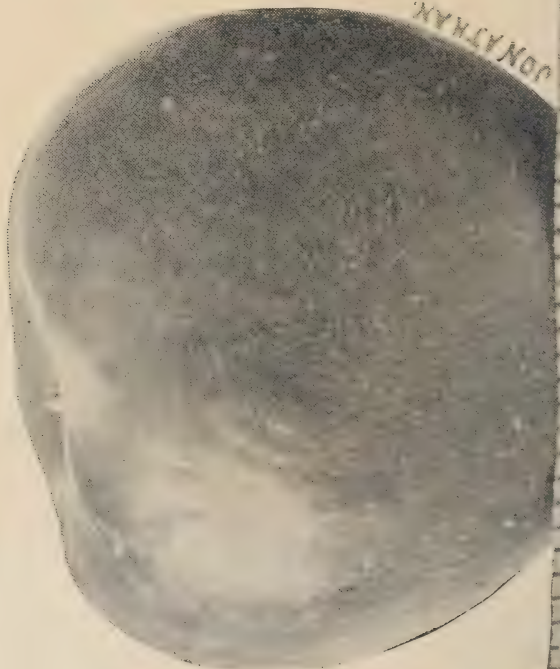
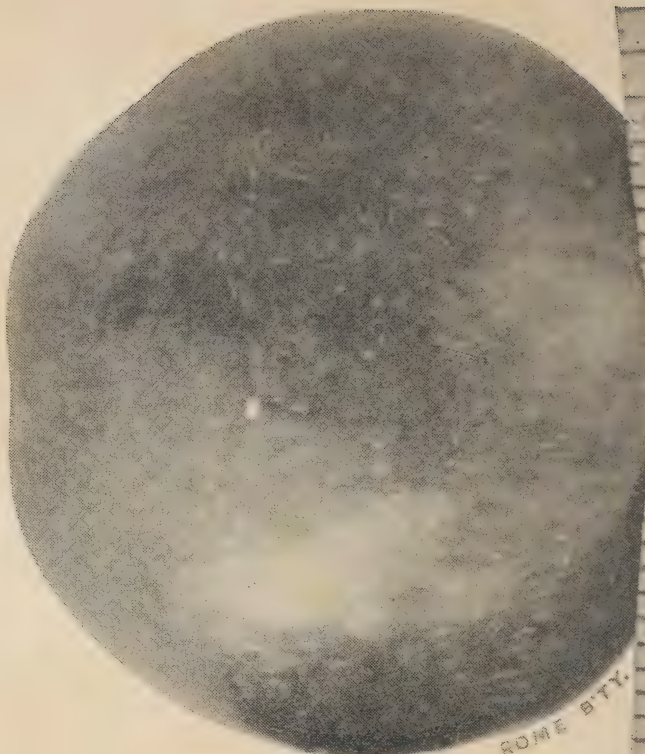
Shepherd & Co.
ROCHESTER, N.Y.

RED ASTRACHAN succeeds from Maine to California. Tender, juicy. **BENONI**, the **best** apple of its season, far finer than Red June. Because of its **beauty, fine quality and firmness**—almost like a late sort—we especially recommend Benoni as an excellent apple to ship long distances.

DUCHESS (Oldenburg), is **hardy and profitable**, especially north, for its **early bearing** and endurance of severe winters; fine in Texas—and everywhere the **Great Cooking Apple**. The demand for Duchess in the Chicago market has never yet been met.

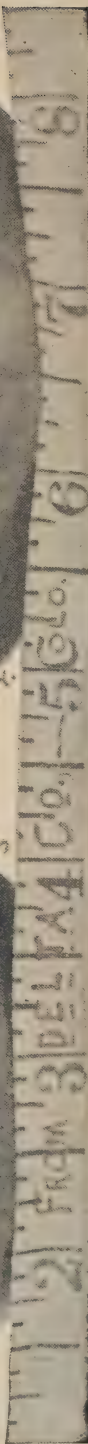
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PAT'D TRADE MARK



ROME B'Y.

JOHN HAN



STARK TREES
BEAR FRUIT
Stark Trade Mark

STRAWBERRY.

JEFFERIS.

Reichelderfer & Co.
 100 N. 3rd St. Phila. Pa.

STRAWBERRY (Chenango, Sherwood Fav.)—A strawberry-flavored apple, much esteemed wherever grown. Highly valued on account of handsome appearance and fair quality.

JEFFERIS (Everbearing), **finest** for table and market during **nearly three months**. "Flavor equal to a good pear." The best orchardists are planting it largely.

PROF. VAN DEMAN: "Choicest early fall apple known. Most constant and abundant bearer. No orchard should be without it."

PRES. RIEHL: "Best late summer apple. Finest flavor. Always bears full. Splendid for both market and family. No apple brings more money."

F. I. MANN, Ill.: "Best for both table and market, and brings more money in Chicago than any apple of its season. Has **PROVEN HARDY** and an **EXCELLENT BEARER**."



STARK TREES
BEARFRUIT
STARK TRADE MARK

OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK



**STARK TREES
BEARFRUIT**
STARK TRADE MARK

MAIDEN BLUSH.

WEALTHY.

Rochester Fruit Co.
ROCHESTER, N.Y.

RAMBO.

MAIDEN BLUSH, well known all-round apple. Tender, sprightly, brisk sub-acid. Valued for market, also for drying.

WEALTHY, A most valuable apple of fine size, appearance and quality. Young, sure and too profuse bearer. Very hardy.

RAMBO, an old and widely esteemed sort. Not hardy while young; thrives particularly well on light or sandy soil.

WOLF RIVER, GIANT

THIS giant fruit is the most magnificent apple, whether on the tree or off, that has ever fruited in a Missouri orchard. Attracts more attention than any other. Unlike other large apples, it does not drop, hangs even better than Ben Davis, is a good eating apple, a most excellent cooker, and outsells all other large apples on the market. Best sort to follow Wealthy and Rambo. Succeeds North and South and on both upland and bottom.

Photo of a six-year tree that bore a barrel of fruit. The apples were gathered, measured and sent to the St. Louis Exposition—one basket of them to E. C. Simmons, President of the Simmons Hardware Co., the largest hardware firm in the world, who wrote us: "They are the best cooking" and finest apples I ever saw."



STARK TREES
STARK TRADE MARK
BEARFRUIT

OLD OAK PROCESS
WHOLE ROOT TREES
PAT'D TRADE MARK

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for STARK BROS

Rochester Litho. Co.
ROCHESTER, N. Y.

WOLF RIVER, the GIANT SHOW APPLE, after full tests, proves to be a variety of Exceptional Value.



Photo of a pair of **WOLF RIVER Giant Apples** off the tree just shown.

STARK TREES
BEARFRUIT
STARK TRADE MARK



Rochester Fruit Co.
 ROCHESTER, N. Y.

BALDWIN, celebrated winter apple east; FALL, west and south.

BELLFLOWER IMPROVED (Mason Orange), is of **best** quality, even **better than Grimes Golden**. Seedling of Yel. Bellflower, closely resembles it—but is of still better quality, **YOUNG AND REGULAR BEARER**.

YELLOW BELLFLOWER is of good quality, but a **TARDY AND SHY BEARER**.

GRIMES GOLDEN, one of the very **best and most profitable** late fall and e'y winter apples. Particularly valuable for its **late blooming**.

U. S. Pomologist Heiges: "In N. C. orchards Grimes Golden, Ralls Geneton and Rome Beauty are found very valuable owing to **LATE BLOOMING**. York Imperial is also extensively planted."

Am. Pomological Society.

Prof. J. L. BUDD, before the late session of Am. Pomological Society, at Washington, Sept. 1891:

"SECTION VS. WHOLE ROOTS IN PROPAGATING THE APPLE.

"This subject has been discussed pro and con during the past 30 or more years. In sections **where injury** to apple trees in nursery and orchard by **root killing** is **unknown** the **BUDDED OR CROWN GRAFTED** trees are **PREFERRED**. But even in these favorable sections the use of healthy and vigorous seedlings has been urged.

"In Iowa the use of long cions and short roots has been advocated. * * * But some of our careful experimenters have found that **LONG CIONS** and **LONG ROOTS** have **MADE** the **STRONGEST** and **MOST UNIFORM TREES** in the nursery and the **MOST ENDURING TREES** in the orchard.

(Continued on next page.)



[Photo-engraving showing: Fig. 7, Piece-root Ben Davis, 2-yr., X. Fig. 8, Whole Root budded Ben Davis, 2-yr., X. Scale nearly one-half less than preceding cut-1, 2 and 3; both preceding and above were engraved from photographs of trees grown in our nurseries.]



[Photo-engraving showing: 1. Piece-root apple, 2-yr., 8 to 4 ft. (and yard stick.) 2. Piece-root apple, 2-yr., 4 to 5 ft. 3. Whole root grafted apple, 2-yr., X.]

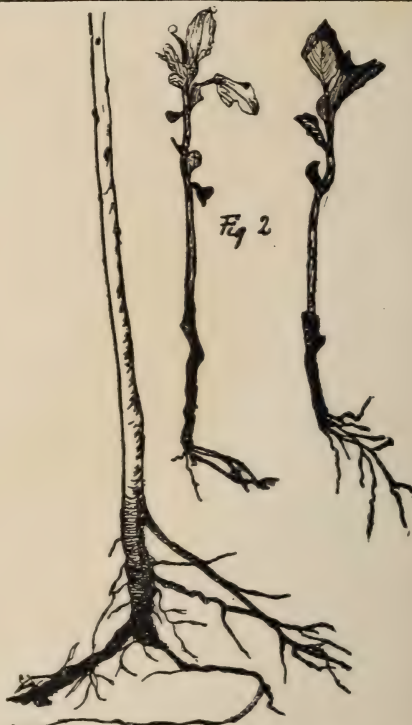


Fig. 1. Piece-root tree, 3 yrs. old. Fig. 2. Formation of Piece-root grafts. Both show how piece-root trees "nearly always root on one side." The above is engraved from two of a series of photographs used by PROF. L. H. BAILEY, of Cornell University, in illustrating an address on Root Grafting and Budding before the Am. Nurserymen's Association.

STARK TREES
BEARFRUIT
STARK TRADE MARK



Rochester F. W. Co.
 ROCHESTER, N.Y.


PAINTED from NATURE
 for STARK BROS.

JONATHAN, "Queen's Favorite"

A most delicious seedling of Spitzenburg. Tree far **longer lived** than Ben Davis. For last few years has **sold higher** than any other apple—see Chicago and other market reports.

A great **export apple**; even **Queen Victoria** lately had a carload sent over for the royal table.

Jonathan must be planted with **other sorts for cross-pollination**—in fact it is **always safer** to plant several sorts rather than large solid blocks of **ANY** one variety.

 Apples **keep far better** if picked soon as the **seeds are brown**; this is applicable to Jonathan and all apples which do not hang well until Oct 1st, as well as to summer and fall apples intended **for shipment**.

WORTH 50 YEARS OF LIFE, says Prof. Bailey, to discover this cure for chronic constipation: Eat ripe fruit, all you can, **half hour** before each meal time—and at no other time if case be severe. Will restore health and strength, "renew youth," give sound sleep, bring happiness. Try it—worth more than money.

"To illustrate: A few years ago the writer put up 3,000 grafts with cions 7 inches in length **INSERTED AT COLLAR OF THE UPPER SIX INCHES OF STRONG SEEDLING ROOTS.** These long grafts were set down to the top bud of the cion in trenches. By their side were set 3,000 grafts made with 8 inch cions set on **TWO INCH SECTIONS OF ROOTS.** The results in nursery were **very striking.** The long crown grafts made a uniform growth of **four feet** the first season, while the lower section grafts ranged from one to three feet in height with many gaps where root and cion died together. When three years old the difference in height of the best specimens of the section grafts were less, but a **large per cent** of them that lived were **short and slender,** and **not five per cent** of them **equaled the poorest of the CROWN GRAFTS** in height, stockiness or **THRIFT.**

"When finally dug the **ROOTS ON the CROWN GRAFTS** were by **FAR THE STRONGEST** and **MOST FAR REACHING.** But as a rule the section grafts had the most **fibrous** roots within 18 inches of the crown.

"In orchards the **CROWN GRAFTS** are yet **AHEAD in SIZE,** uniform **GROWTH, HEALTH** and **BEARING.** As they were not of the varieties which have stood the test of recent winters their number has been sadly decimated, but the per cent. of **GOOD TREES** is **MUCH IN FAVOR OF THE CROWN GRAFTED LOT.**

"Joining personal experience with that of **hundreds of careful observers OF IOWA,** we **MUST** conclude:

"That it is not profitable to use lower **section roots** as they **give too many culls,** and that **EXPERIENCE HAS SHOWN** that they are **LESS GROWTHY AND ENDURING** trees in orchard than those made from crown roots. The most profitable tree is from the **LONG CION set ON A CROWN ROOT not less than six inches** in length and planted down to the top bud of the cion.

"The **argument** of some nurserymen that these long grafts are **expensive to make and set HAS LITTLE WEIGHT.** The trees stand deeper in nursery, and are harder to dig, but the increased labor is far more than compensated by the **STRONGER** and **BETTER** distributed **ROOT SYSTEM.**"

LIFE is too short and time too precious to be wasted in making experiments to prove facts already demonstrated. The greatest scientists have only had time to prove for themselves a fact here and there. If we do not accept the facts established by others, the entire fabric of knowledge must go to the winds. Rather let us profit by the knowledge already accumulated by the best minds the world has ever seen. **Therefore** be not deceived by the selfish arguments of men who hope to profit by selling you piece-root trees—you have observed, no doubt, that in all matters of argument, the predisposition is largely controlling—men always accept more readily that which they **prefer** to believe. Hence, ordinary business precaution will indicate the prudence of hearing, also, disinterested testimony. True, we have Whole Root trees to sell; we also grow piece-roots—for those who want them. Directly the latter pay us as much or more than Whole Root trees. Yes, we grow both kinds, but we differ in our views from that nurseryman who preferred short-lived orchards that he might sell the more trees.

But admit that *our* judgment may be biased; or, if you please, that we are wholly selfish in recommending Whole Root trees. How will you dispose of the matured judgment, formed and expressed, after long years of patient research, observation and experience

with trees of every kind, by men pre-eminent in the science of Horticulture, such as **Chas. Downing, P. Barry,** and so many others—than whom no higher authorities have ever lived in America—or in the world.

Prest. P. J. BERCKMANS, in his valuable work on "THE APPLE," written in 1867, said:

"Standard trees should be propagated only upon **healthy and vigorous** stocks, **EITHER** by grafting or budding. The system of grafting upon pieces of roots **IS WRONG,** to say the least of it. As this is the **cheapest and quickest** method to **manufacture** trees, it is much resorted to by some nurserymen. **NO LASTING RESULTS** can possibly be expected from trees propagated upon this plan. They never form any but small **fibrous, HAIR-LIKE** roots, and when planted in the orchard they require staking, and **SELDOM** ever **MAKE A GOOD TREE.** Several years ago we **denounced** this system as **WORTHLESS** and **ONLY CALCULATED TO DISAPPOINT THE PLANTER.** Our opinion is **SUBSTANTIATED** by that of **RELIABLE CULTIVATORS."**

"Twenty or more years ago," writes Dr. W. W. Stell, "when I was preparing to propagate trees, I wrote to P. J. Berckmans for information—and many times since, the last time within a few months. He has ever advocated the same system. . . .

"Mr. Berckmans," continues Dr. Stell, "is a horticulturist with no superiors, and with but few if any equals, in this country. By true merit he has reached and now stands upon the top round of the horticultural ladder, for he is to-day the honorable president of the Pomological Society of America."

In the last correspondence with Dr. Stell, Prest. Berckmans wrote:

"My experience in propagating trees **dates back to 1840.** I then grafted some cherry trees, which, when I saw them last in Belgium, in 1884, were in a vigorous condition. Since 1840 a **few millions** of trees have been propagated under my supervision, and mainly by my own hands, therefore I refer back to **50 years practical experience,** 40 of which I have lived in Georgia, and I hold from **close study of fruit tree growth** that the most desirable method is to **use a whole seedling** as a basis for a tree if a standard is expected."

The following is condensed from a letter recently written by Prest. Berckmans, in answer to an inquiry from Dr. Ragland, editor of the *Southern Horticulturist and Farmer*:

"**DEAR SIR**—Your favor is received. I have read several articles lately in Texas and California horticultural journals on the question of whole roots and piece roots in propagating apple trees, and you ask my opinion in the matter.

"**I hold that for a standard tree a WHOLE seedling stock should be used.** A tree grafted upon a piece of root will, under proper cultivation, make a very satisfactory growth for a **year or two** while in the nursery row, but, with few exceptions, it will begin to **decline** after attaining the bearing age in the orchard. While piece-root grafted trees form an abundance of **SMALL FIBROUS** roots, they are **deficient** in **strong, penetrating** roots, and draw their sustenance **wholly from the surface** and when not kept well fertilized **FAIL** to continue in vigorous growth. But as I said, the critical period of the life of such tree is in **reaching the bearing period; few survive over two or three years AFTER PRODUCING FRUIT.** The history of all piece-root worked trees planted in orchards since 1860 has been the same—**eight or ten years of life, a few small crops** of fruit, and then **DEATH.**

STARK TREES BEARFRUIT

STARK TRADE MARK

KINNAIRD'S
CHOICE.

SHANNON IMPROVED.

Shaker & Co.
ROCHESTER, N.Y.

KINNAIRD CHOICE (Kenyon Red), a magnificent early winter apple; best quality, very hardy, very prolific—and bears very young.

SHANNON IMPROVED—sold only under Patented Trade Mark.

The grandest yellow apple. Color, size, shape, flavor, quality, same as the old Shannon, but keeps better, bears better, bears younger, bears on thin soils, and is full every year—in 20 years has never failed.

"There are many old apple trees in this State which are still healthy and productive, though planted long before the era of piece-root grafted trees; they were either seedlings, or propagated by the **OLD HONEST METHOD** of using a **WHOLE healthy seedling** as a **stock**. In comparison with piece-root grafted trees, I consider apple trees **budded or grafted on WHOLE seedling stocks as FAR SUPERIOR**. Fully 90 per cent. of apple trees budded on whole stocks should grade at the end of the first year 4 feet. In piece-root grafts fifty per cent. can seldom be expected to reach 3 to 4 feet, the balance ranging from 12 to 36 inches, and the second year not above 40 per cent. are salable trees that can be graded to the two-year-old standard. The third year finds still more trees failing to come up to grade—as the **small fibrous roots have** by that time **exhausted the plant food** in average soils.

"All intelligent fruit growers know that a tree which has grown off **VIGOROUSLY** in the nursery row the first year and is at that age as large as another will be at two years, is the most desirable, is apt to succeed best, and is equal or superior to a two-year-old tree of lesser growth; hence, to obtain the object in view, **LONGEVITY and FRUITFULNESS**, a tree should have for basis a **healthy stock**, capable of **PENETRATING** the soil with **STRONG roots**, and an abundance of **LATERAL roots** to draw its nutrition.

"Yours truly,

P. J. BERCKMANS."

1st Vice-Prest. T. T. LYON: "It is plainly against nature to take a cion which has grown high up in the **sunshine and air**, place it almost wholly underground, quite out of its proper element, and then expect that it can so completely **change its nature** as to make a perfect root system, a crown, and a top—all from a short cion formed by nature for **aerial conditions alone**."

Later, Prest. Lyon writes us: "I have read the article in *Rural World* on Whole-Roots and Piece-Roots. I regard its doctrines and the proposed practice **AS SOUND** . . ."

[*Italics*, where used, are so indicated in the originals; but the **heavy type** are ours.]

Treasurer BENJ. G. SMITH, (Prest. Mass. Ag'l Society, Vice-Prest. Mass. Hort. Society, member Am. Forestry Congress, member Am. Society for the Advancement of Science, etc.,) wrote us Mar. 28, '91:

"If I were engaged in fruit culture *commercially*, long 'ere this you would have received an order from me, as I thoroughly believe in *whole stocks for grafting*. Your excellent circular, from my dear friend, President Berckmans, I think must convince all unprejudiced minds. . . . My intense love for horticulture has stimulated me to make the most of my grounds, which are largely devoted to testing best varieties of fruits. . . . Please send me 12 pear trees, selected trees on *whole stocks*, your choice." **Later**, Apr. 3, '91: "Your esteemed favor at hand, for which please accept my grateful thanks. . . . It will be a pleasure to speak a kind word for the Nurseries *where whole stocks are used*."

FRANKLIN DAVIS, Ex-Vice President Am. Pomological Society, writes of piece-root trees:

"The roots from these small pieces cannot be so well developed as to properly feed the tree or hold it up; hence, they are often uprooted by storms. We must **plant the whole stock**, leaving the **crown as nature formed it**; then we have the **whole root, strong and unimpaired** by division to feed and develop the tree. As the tree is not only held in its place by its roots, but also receives most of its nourishment through them, it is plain to see why it will **GROW**

LARGER, LIVE LONGER and BEAR MORE of **whole root trees** he says: "The superiority this mode of propagation has long been acknowledged by intelligent nurserymen and orchardists, yet **nin tenths** of the apple trees sold are **grafted on pieces of roots**. Nurserymen have not grown true on whole roots for the reason that it **costs more** to propagate them that way, and it has been difficult to get many planters to pay that additional cost, but we are glad to see the people awakening to their interests. **KNOW** such trees **ARE THE BEST**; and making an improvement so important as an orchard there is no economy in using an **inferior article**."

The late **P. BARRY**, for many years the As Secretary of the American Pomological Society, describing the operation of budding in his well-known book "Barry's Fruit Garden," speaks of high and low budding and the necessity for the latter; after giving the reasons why stocks should be budded as close to the surface of the ground as possible, even removing some of the earth, sums up the whole matter in a few words "low budding makes the best trees." Of the kind of operation of grafting he wrote, as late as 1890:

"Very good trees are produced on pieces of root **three or four inches** in length; but there is **no doubt that the cut next to and including THE COLLAR IS TO BE PREFERRED**."

[But instead of three inch pieces, the piece root men say "use **one to two inch** pieces—the shorter the better."]

CHAS. DOWNING, in the great work of his life "FRUITS AND FRUIT TREES OF AMERICA," says "Large quantities of trees are propagated by using

pieces of roots, thus forming from the root of one stock two, three or more grafts. This practice, although quite common, is of **VERY DOUBTFUL** value and by prominent horticulturists considered as tending **debilitate and reduce vitality**—the seat of vital life in fact resting in the **natural crown** of the seedling, and **that**, once destroyed, cannot be renewed. is therefore, apparent that but **ONE HEALTHY PERMANENT TREE** can ever be grown **FROM A SINGLE SEEDLING STOCK**."

Judge S. MILLER: "Growing apple trees on whole stock, instead of cutting the roots into pieces, is the usual practice with nurserymen, is a mode I have long advocated; but at present prices of apple trees don't pay unless a better price be paid for the tree. **P. Barry** wrote some years ago that what he considered a good graft was to use but **one whole root** to tree. At the time I endorsed the idea and have since changed my mind."

Later, Judge Miller writes us: "You may be pleased to learn that many letters reach me expressing approval of the stand I have taken on whole roots. One orchardist writes that he *knows* we are right. My impression is that it will not be long ere no pieces of roots will be used in grafting trees. The whole root is the natural system and we cannot stray far from this line without deterioration sooner or later."

Later: "I see that there are still some who prefer to prove that Piece Root trees are as good and as long lived as if worked on whole roots. I wish I could take such men back sixty years and show them trees two feet in diameter and 40 feet high, bearing wagon loads of fine fruit, grown on whole roots. These trees stood all their glory long after other trees planted many years were dead—but which had been worked on the new system of cutting the roots into pieces."

"It requires but one sober thought to convince anyone that 'a tree is a tree,' and that nature never intended seedling to be mutilated. This thing of their becoming established on own roots in the end will not hold out, for I have dug thousands of trees in nursery that had but a few small roots emerging from the graft. Of course I after years they may strike out roots in self defense."

"On some of our Western prairies I have seen orchards just about ready to bear, acres of them, all leaning to the N. E. at an angle of 45 deg., just the position to get sunsailed on the S. W. side, so as to give the flat-headed borer a chance. The end of such orchards I do not far off. Were these trees grafted on whole roots or properly planted? They were not!"

Later, Oct. 14, 1890: "Whole Root grafts got of you last Spring are nearly double the size of the piece-roots

STARK TREES
BEARFRUIT
STARK TRADE MARK

THE
 "SENATOR"
 FROM
 ARKANSAW.

Rochester Nurseries Co.
 ROCHESTER, N.Y.

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PAINTED FROM NATURE
 for STARK BROS.

**Sold
 ONLY
 Under
 PATENTED
 TRADE MARK.**

It is only now and again that there comes a new apple of such superlative merits as to delight at once the trained pomologists and the "plain people" also. But this rare combination is given to the world in the SENATOR—the **MOST ADMIRER** and best liked apple shown at the World's Fair. For **rare beauty and singularly fine quality**, the choice of every beholder. Generations to come cannot choose but bless the unknown friend of man who first raised it—what pleasure he conferred on his fellows!

"Bears every year, began at 4 years and **OUTEARS BEN DAVIS**. Trees simply look like a pile of apples; 16-yr. trees **AVERAGED 24 BUSHELS** 1st class apples; limbs **BEND TO THE GROUND**, but don't break. Finer quality than Kinnaid, don't scab, good keeper—best apple planted in this country; made us **MORE MONEY** than Ben Davis or anything else." Tested **50 YEARS**.

Later: "F. & F. T." is an excellent production and I am reading it through. At the Mo. State Hort. Meeting, I recommended your trees to all and defended you against malicious attacks made in an indirect way. The simple and plain truth is the nurserymen are all envious of the colossal enterprise you have built up, and are afraid of you. It is not your fault that some other firm has not grown up like yours. My wish is that in a few years you will have made money enough to retire and plant your orchards, and then see what another party or company will make out of it, if you sell to them.

"At the Farmer's Institutes I will distribute your catalogues, as well as recommend you in my lectures. But you can scarcely have any idea how these nurserymen pick at me for the interest I have taken in your affairs, and for recommending your stock. What else can I do? They must follow suit if they want to keep pace with the times. In less than 5 years they will all want to use whole roots instead of pieces.

"So long as you have the highest authorities on your side, the piece root men may snap and snarl until they are tired. As for me, if a time comes when I dare not express my opinions fully and fairly, the pen will be laid down, and horticultural meetings no more attended.

Later, June 8, '91: "To-day I answered a letter from a man who will plant a large orchard and who wished my opinion as to whole vs. piece roots, and where he could get them and not be cheated. I told him whole roots every time, and that Stark Bro's, Louisiana, Mo., was the only firm that had trees of proper age thus worked, and that he might rely on what he got from you."

Prof. H. E. VAN DEMAN, U. S. Pomologist, says: "Some years ago I made a series of experiments in Eastern Kansas with root grafts, using piece roots from an inch long from different places on the root, up to the whole root **twelve inches long**. I found the best success with the **top cut six inches long**. Those that were twelve inches long did not develop roots below. These experiments were made with the Ben Davis apple, which is one of the best varieties to throw out roots from the cion or cuttings."

Prof. THOS. MEEHAN, a life member of the Am. Pomological Society, for 30 years the editor of the *Gardener's Monthly*, now editor of *Meehan's Monthly*, for more than 50 years a practical nurseryman, and to-day one of the leading American scientists, says:

"There is a fallacy concerning **fibrous roots** which should be corrected. It is generally believed that a plant having many **hair-like** fibres on its roots is the best for transplanting, but **this is wrong**; these fibres bear the same relation to the main roots that leaves bear to the branches, and last only as long—i. e., each season they are renewed. A few **weak, fibrous roots** alone are of no value to a tree whatever, as it is the **LARGE ROOTS** which are **FULL OF STRENGTH** that push out the new white rootlets which gather nourishment from the soil. It does not matter how fibrous-rooted a tree may be; thousands of the small fibres must die before becoming established and the white roots are started, as science teaches us that it is only at the tip of the NEW fibres that growth is made."

Prof. L. H. BAILEY, Dep't Horticulture Cornell University: "Cutting a root into pieces allows us to **make more trees** from our stocks. It allows us to double and treble, and sometimes even quadruple trees. It **cheapens** multiplication, hastens multiplication. But there are **disadvantages** in this method of propagation. The roots from piece-rooted trees always are **more pony, not so deep, more horizontal**, have no tendency to grow near the surface, and have **not nearly so many roots AS WHOLE ROOT TREES**. When roots begin to form from a cutting, they nearly always form on **ONE SIDE** and have a tendency to push out and **grow in one direction**. I have root-grafted a great many trees, and in **nine cases out of ten** the roots were a great deal heavier and **stronger upon one side** than the other. Whether the tree overcomes these disadvantages later in life I cannot say. Root-grafted trees as a rule make a **smaller growth** the first year. The tree has not so much root to start it off. The union in piece-root trees is **apt to be imperfect**,—persons who are careful in their observations have made that statement. Root-grafted trees tend to be **more straggling** than trees which are worked upon whole roots. They are **apt to tip over** in the orchard, and are not so long-lived as others.

"Now I wish to speak of the advantages of whole roots: We get **BETTER, DEEPER and FINER ROOTS UPON TREES WORKED ON WHOLE ROOTS**. These trees **HAVE MORE FORCE**—larger engine and larger power behind. They **grow taller the first year**. Many say the crown of the tree must be a vital part of the tree. A great many

think the **crown is the best place**, and as between crown and root, it would seem **TO BE TRUE.**"

ILL. STATE HORT. SOCIETY.

From Report of 1890.

"The exhibition of nursery stock was the best ever made at these meetings. That of Stark Bros., of Louisiana, Mo., was exceedingly varied and interesting, and illustrated the various modes of propagation practiced by them. . . ."

Prof. T. J. BURRILL: "But fairness demands the mention that in the excellent samples shown in the adjoining room by the Stark Bro's, there is more evidence of the unhealthy swelling on the piece-roots. . . ."

The following, by C. M. Stark, of Louisiana, Mo., bearing on the question, was read by Prof. Burrill—(on the last afternoon of the meeting, after the departure of Mr. Stark):

The actual truth about this matter is what is wanted. If piece-root trees are just as good as whole roots, we want to know it, and if not as good we want to know it. Prof. Burrill has shown us that in grafting, the cells of cion and stock do not actually unite, it being impossible for two cells to unite to form a single cell. But when we graft a seedling just above the collar on the close-grained, tough wood, grown like the cion above ground in the light and air, the cion and stock, having a similar cell structure, form a more perfect union than the same cion would form on the softer and more spongy wood of the second or third cut of the seedling root. Prof. Burrill also mentioned the swelling or enlargement so noticeable on piece-root grafted trees, which he says shows a faulty union. In piece-root grafting you may splice the top cut just above the collar, but when you cut it off with but two inches of root, your tree, while having good surface roots, will not put out any penetrating roots. Now graft the **second cut** and penetrating roots will sometimes put down from the lower end, but the tree lacks the surface feeding roots given the seedling by nature; but make this **second cut** four inches long instead of but two inches, and it will always put down several deep-reaching roots. Now why not have both the surface feeders—as well as the natural crown or collar of the top-cut—and the strong, deep roots of a long second cut for our orchard trees? Well, this is exactly what is gained by whole-root grafting. The splice is made just above the crown, and the long tap root of the seedling shortened to 6 or 7 inches, which causes it to branch just in the same way a vigorous one-year tree does when its one straight shoot is topped back to form a head. Of course the entire unshortened root is never used at least, not if the work be rightly done, yet the trees are **whole root trees** in the sense that **all the essential parts** are used, and but **one tree** can be made from one seedling.

Now it is plain that such a whole-root tree is worth at least as **much** as a piece-root tree; Pres't Berckmans, Downing, Prof. Bailey and others say it is worth far more. This being so, it is certainly the part of prudence to **investigate** before we plant our orchards with piece-root trees.

Some ten years ago, when I was as strong an advocate of piece-root grafting as any one could be, I decided to plant an orchard of 130 acres. About this time I got hold of Downing's "Fruits and Fruit Trees of America," and read what he says about the natural crown being a **vital part** of the tree. This started me to investigating, and the result was I made up 10,000 Ben Davis and 7,000 Willow Twig whole-root grafts for my future orchard, using, however, only about 3 or 4 inches of the root, instead of **6 or 7 inches as now**. Well, the trees were taken up at 2 yrs. old, but by this time, like most nurserymen, I found I had already more work on my hands than I could attend to without the orchard, so the trees were sold. Pres't H. M. Dunlap bought and planted part of the Willow Twig, 500 or 600, I think.

Pres't. H. M. DUNLAP, some time after receipt of the Whole-Root Willow Twig trees referred to above, wrote us: "The Willow Twigs you sent us this year were the finest of this variety I ever saw, and I was somewhat in doubt as to their being true to name, but on closer examination I find they show the characteristic Willow Twig growth."

FURTHER LIGHT upon this important subject and, as the well-known Orange Judd says, "much other **trustworthy** information for all who grow fruit of any sort or kind," may be had in "FRUITS AND FRUIT TREES," sent free to all who will take the trouble to write a postal card to Stark Bro's, Nurserymen, Louisiana, Mo., for the book.

**STARK TREES
BEARFRUIT**



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BY STARK BROS

PAINTED FROM NATURE
for STARK BROS

Rochester Nurseries Co.
ROCHESTER, N.Y.

BLACK BEN DAVIS—Sold ONLY Under PAT'D TRADE MARK

Seedling of Ben Davis and a great improvement. Like Ben Davis EVERY WAY, but **MORE BEAUTIFUL** color, **BETTER QUALITY** and a **BETTER KEEPER**—three VERY IMPORTANT POINTS "Beautiful to look at and gets **extra good**."

Far and away better than Gano: Decidedly **larger**, fully equal to Ben Davis; Gano is smaller. **Longer keeper** and **does not "scald"** in cold storage; both Gano and Ben Davis do scald. A more **SOLID, DEEPER RED** color; Gano often lacks color. **Very much** better quality; Gano is no better than Ben Davis. In brief, Black Ben Davis is what Gano ought to be—but **IS NOT**. We are convinced it is going to be one of the most popular market apples grown. Has already been well tested.

Originated by Mr. Black in N. W. Ark. in 1869. Later, 9 trees were grafted and set in orchard where they have regularly excelled Ben Davis. No other trees in existence.

Important



THE FOUNDATION IS EVERYTHING.

Some built on the ROCK, others on the SAND.

The photo shows: **15 0. O. P. WHOLE ROOT** grafts made from **FIFTEEN** seedlings, **15 PIECE ROOT** grafts made from **ONE** seedling!

As the boy is father to the man, so is the graft father to the tree. But in perfection it is *hard* to get away from the fact that one powerful factor—**CONF.** The cost of seedlings alone to make Whole Root grafts, to say nothing of their being "hard to plant," gives the piece-root people all their trouble.

OLD OAK PROCESS **WHOLE ROOT TREES**

TRADE MARK

YORK
IMPERIAL.

STARK TREES
BEARFRUIT
STARK TRADE MARK




Stark Brothers Co.
ROCHESTER, N. Y.

ARKANSAW MAMMOTH BLACK TWIG.

YORK IMPERIAL, crisp, juicy, good; heavy bearer, hangs well, good keeper. Grown with great success, Central and South.

MAMMOTH BLACK TWIG, the true variety, is **THE** apple to plant on poorest soil; does well on land entirely too poor for others. The true Mammoth Black Twig is a different and far better apple than Paragon, of Tenn.

The great reputation of the M. B. Twig was first made in the vicinity of its origin in Washington Co., Ark. The writer lately made a 3 weeks' trip through the mountains of this section, where, near Rhea, is the original tree, 65 years old, 6 feet, 8 inches in circumference, $2\frac{3}{4}$ feet above ground,—fruit from which was shown at the Ark. Hort. Society. Certainly finer apples were never seen; indeed, the largest apple shown was a Mammoth Black Twig, weight 20 oz.

 We had long been getting M. B. Twig scions from N. W. Ark., but to be absolutely sure of true stock, we have again gone back to the original tree and a nearby young orchard grown directly from it.

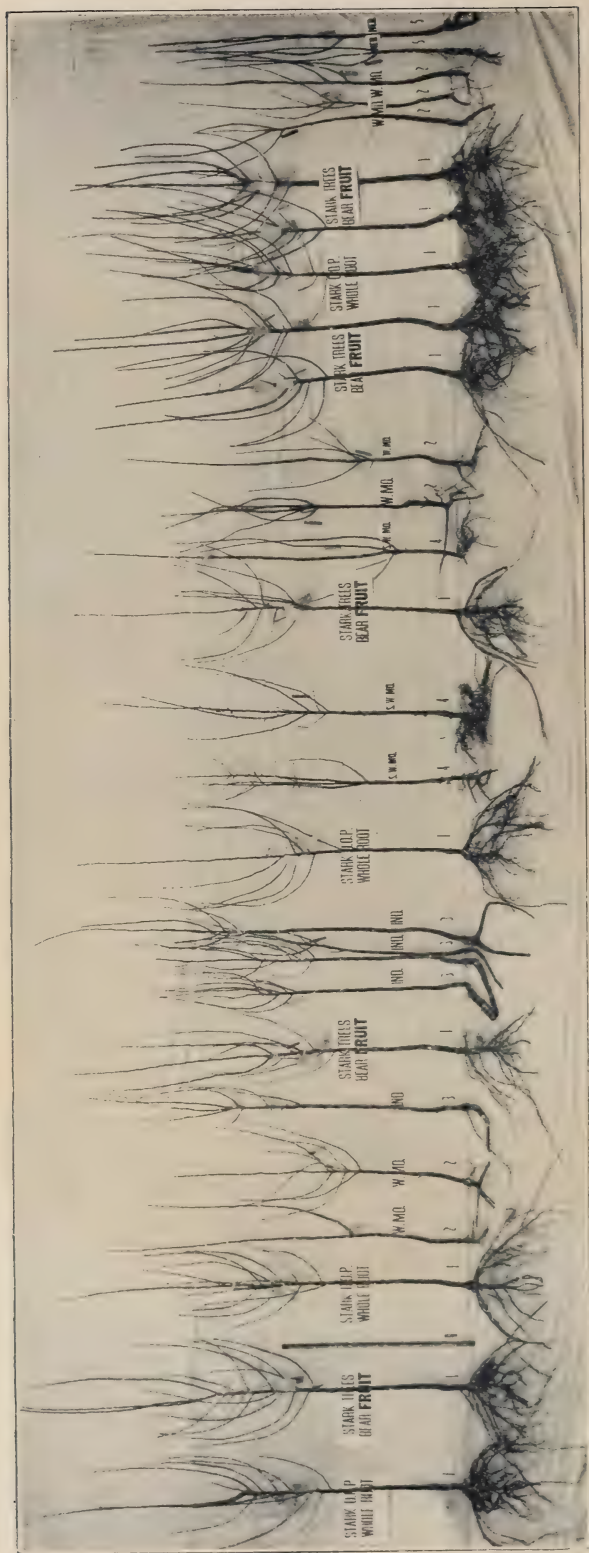


Photo of 11 STARK O. J. P. WHOLE ROOT XX 1st Class 2-yr. Apple trees, marked "1."

Also 17 regular "1st Class" trees (pc. rt.), from four different nurseries, marked 2, 3, 4, 5, respectively.

STARK TREES
BEAR FRUIT
STARK TRADE MARK

Important

OLD OAK PROCESS
WHOLE ROOT TREES
TRADE MARK

STARK TREES
BEARFRUIT
COUNTY TRADE MARK

Rochester Fruit Co.
ROCHESTER, N.Y.

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PAINTED FROM NATURE
for STARK BROS

CHAMPION (Coss' Champion, Champion Red, Collins Red)—Of the six new N. W. Ark. apples now offered, only this and Senator were ever exhibited until at the STARK FRUIT FAIR. Both have excited great interest ever since shown at the World's Fair, where they took the lead among 60 worthy new sorts. In the only neighborhood where they are grown, they **lead Ben Davis and all others**, planters saying, "wish **all** our trees were Senator and Champion."

For **quick profit**, Champion surpasses Mo. Pippin—yet the **old 40-yr. tree** still bears **fine fruit**. Excels Willow Twig in value, quality and keeping. Large, good color, long keeper; juicy and does not become dry—yet flavor is its one lack. Hangs a **month longer** than Ben Davis, bears **younger and fuller**. Tree **strong jointed**, shouldered like E'y Harvest, tough and hard to break; 8-yr. trees averaged **OVER 5 BUSHELS** fine apples.

The week before our visit, the Olden Fruit Co. scoured the country, seeking a **MARKET** apple which would **hang longer** than Ben Davis. They found Champion and—went away satisfied.

STARK TREES
BEARFRUIT

STARK TREES CO.

A STARK O.O.P. WHOLE ROOT TREE.

OVER 40 YEARS OLD.
GOOD FOR 40 MORE.



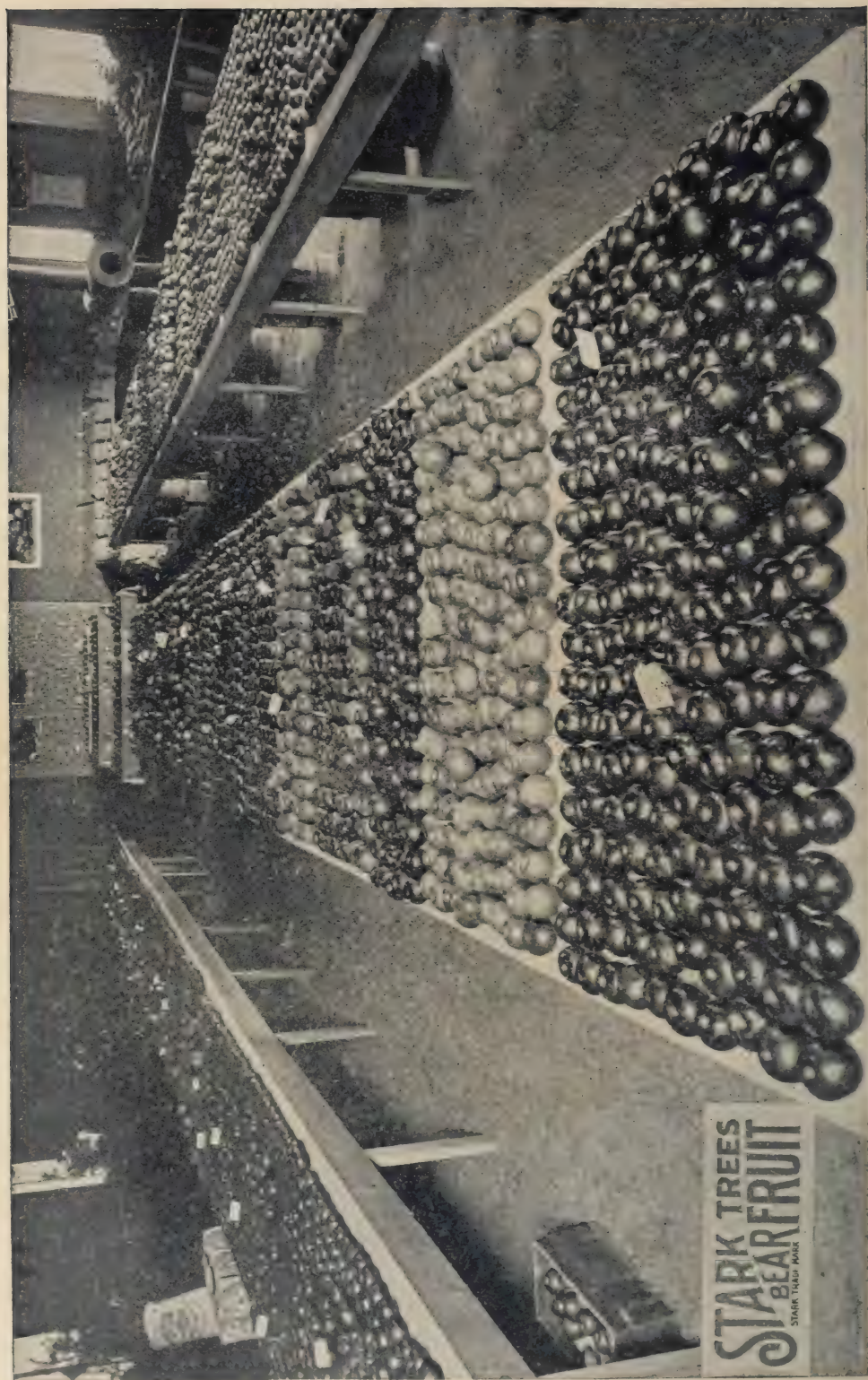
STARK TREES
BEARFRUIT
STARK TRADE MARK



SPRINGDALE, an extra fine long keeper. Took the **First Prize** at the Ark. Hort. Soc., and attracted **great attention** at the **World's Fair**. The old tree has **never failed to bear** and the young ones are more than ever convincing us that Springdale is a new variety of **unusual importance**. Excellent quality. Good grower, wood very hard and tough; hardy far north.

"Nature Abhors Self-fertilization," says Darwin. Not only Plums, but Pears, Apples and **all fruits** are more fruitful if several varieties are planted together, mingled or rows alternated, rather than large blocks of any one variety.

IF ONLY FRUIT of **Best Quality**, **Properly Packed**, went on the market, there could be **No Such Thing as Overproduction**. It is the **Poor Stuff**, **Poorly Packed**, that breaks the market, reducing prices of the **Good Fruit**.



STARK TREES
BEARFRUIT
STARK TRADE MARK

STARK TREES
BEARFRUIT
STARK TRADE MARK



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Rochester Film Co.
 ROCHESTER, N. Y.

LEGAL TENDER, most valuable of all long keepers—excepting only Apple of Commerce. Very large, larger than Ben Davis, but **don't drop**—still hanging well **Oct. 21st**, when Ben Davis and others had fallen. Good color. Good seller. **Quality fine.** Long keeper—while cutting cions **Mar. 1**, found apples that, after lying all winter on the ground under the trees, were perfectly sound.

Tested 21 years. Tough wood, hard to break; not so good a grower as Ben Davis but **better bearer**—"bears to beat Ben Davis and M. B. Twig **all to pieces**, don't drop, almost as good quality as Kinnaird, and **KEEPS like Limber Twig.**"

The six new N. W. Ark. apples we believe surpass anything now in cultivation. As compared with each other, we value them in following order: Apple of Commerce, Legal Tender, Senator, Black Ben Davis, Shannon Improved, Champion—and even the latter **pays better** than Mo. Pippin, Ben Davis, Willow Twig, etc. **Sold ONLY Under PAT'D TRADE MARK.**

For 70 years parts of N. W. Ark. have been an actual **Vast Experiment Station**, people planting seeds of the best apples they knew—hence so many valuable new sorts—literally thousands, many of them good, some better than good, a **FEW SUPERLATIVE.** But we paid no attention to any sort that lacked any one of our five absolutely essential requisites: **Size, Color, Quality, Vigor, Productiveness.**



STARK TREES
BEARFRUIT
STARK TRADE MARK

OLD OAK PROCESS
WHOLE ROOT TREES
PATO TRADE MARK

HON. T. M. CARROLL (whose photo appears with the 42-year-old Stark O. O. P. Tree), writes the *Louisiana News*: "Among the earliest recollections of my Boyhood is meeting the Stark boys (father and uncle of the present Stark brothers) in school or at the old horse mill. One thing that impressed my memory was that those boys *always had apples*. My recollection of old Uncle Jimmy Stark reaches back to the year 1828. In 1852, when I went to the nursery to get the first fifty apple trees I planted, he asked me why I did not plant 500 instead of 50, assuring me that if I would plant and take good care of that number, in 15 years their product would buy ANY FARM ADJOINING MINE. How often I've wished I had take his advice and planted 5 times 500."

**STARK TREE-
BEAR FRUIT**
STARK TREE-BEAR



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BY STARK BROS.

**Sold
ONLY
Under PAT'D
TRADE MARK**

PAINTED FROM NATURE
for STARK BROS.

**APPLE OF
COMMERCE**

Rochester Litch Co.
ROCHESTER, N. Y.

Taken all in all, the **MOST VALUABLE** apple we know anything about. We believe there will come a time when it will be **THE** one great Apple of Commerce, ranking far in the lead of Ben Davis—simply because it is **so much** better in **EVERY** respect. And it is the first apple we have ever yet seen which we earnestly believe will **ENTIRELY** supersede that great market variety.

Hard, tough wood, **never breaks or splits**. Largest leaf and **finest grower** we know. Bears at 4 yrs. and better than Ben Davis—**bears too much**. Sure bearer—**14 CROPS IN SUCCESSION**, without a failure. **THE MOST BEAUTIFUL** apple known, not even excepting Senator, with a heavy **blue bloom**. Averages larger and a "**SIGHT** better" quality than Ben Davis—**ALMOST** good as Winesap at its best. Keeps into June. We shall plant it fast as trees can be had, **AHEAD OF ALL OTHERS**.

As USUAL it is NOT TRUE

Every now and again this firm is informed that competitors are active in stating that STARK BRO'S do not grow trees, but are simply tree dealers, buying their stock from other nurseries—particularly from themselves.

The best way to refute this and bring the facts visibly before the eyes of those who have not visited the STARK NURSERIES to see for themselves, is to state that STARK BRO'S are the only Nurserymen in the U. S. who publish so many practical photo-illustrations of their nurseries and orchards, and at the same time freely invite the public to **visit** and **confirm** the truth of their pictures and statements.

The first actual reproduction of scenes in nurseries was given to the world by STARK BRO'S. The camera was brought to bear on the great fields of nursery trees, the fruit laden orchards, and the busy packing houses, bringing evidence **surer and more convincing** than all the descriptions that could ever be written. Hitherto the accounts of the STARK NURSERIES appearing in the papers from time to time had been solely recorded by the pen, and, consequently, denounced as exaggerated and highly colored. It was then that STARK BRO'S brought the camera to bear—and this is a **WITNESS WHICH CANNOT EXAGGERATE, CANNOT LIE**. The pictures made by the sun **must** show just exactly what comes before them. Being painted by Nature herself, they must necessarily be **TRUE TO NATURE**.

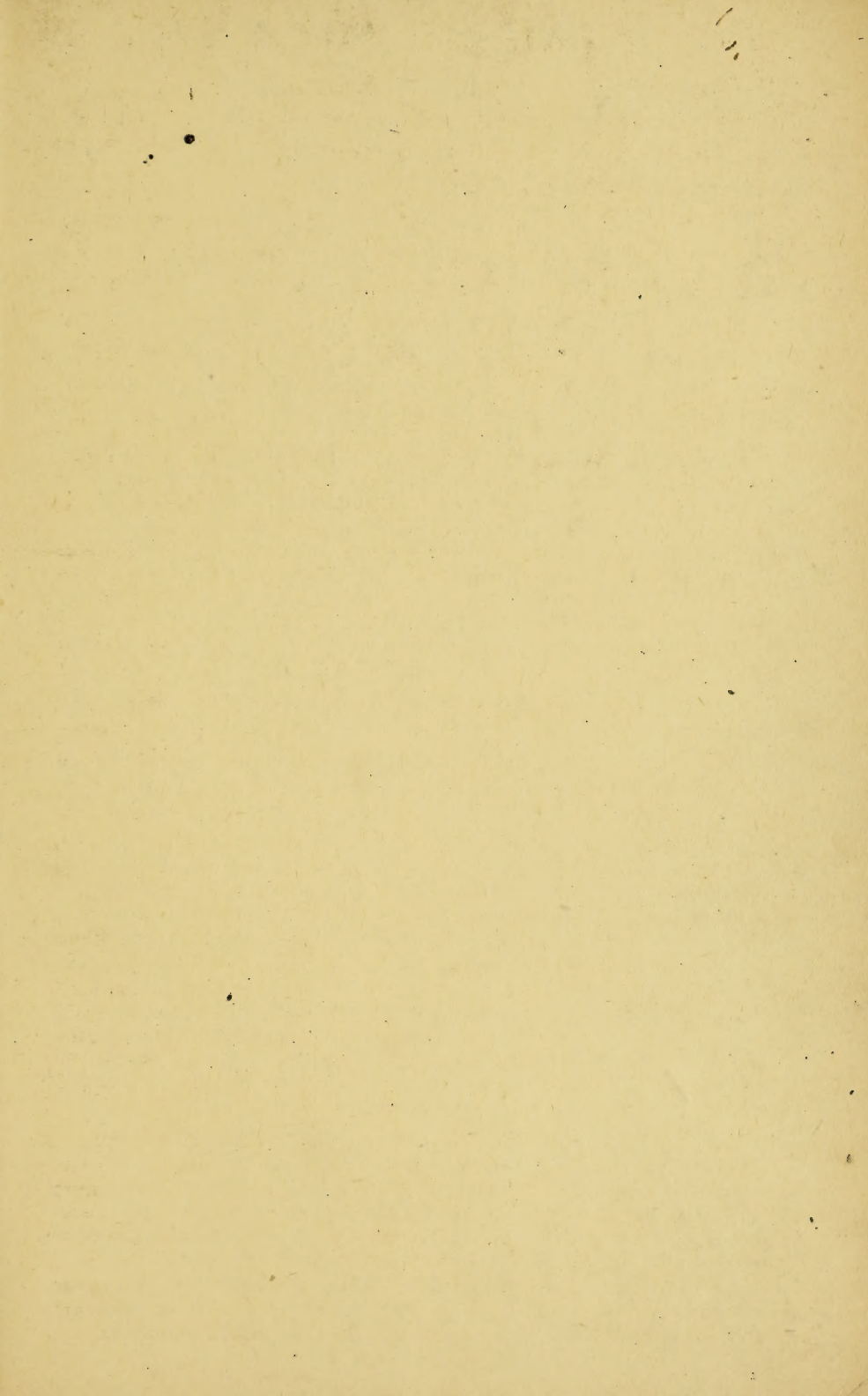
Stark Bro's court investigation—they have nothing to hide. No trade secrets to keep. Visitors are welcome in the offices, to the nurseries, propagating departments—everywhere. They have advertised for years inviting visitors to come, and making this challenge: If everything is not as represented, and, moreover, ahead of any competitor, they will give gratuitously, **1000 Whole Root trees, FREE of any charge**.

Leading pomologists, horticulturists, and nurserymen of the U. S. and foreign countries, men most competent to judge, and hundreds of other visitors, come, see and go away **pleased**, most of them **customers**—and never yet one to claim the 1000 free trees. These **personal visits, proofs, and facts, supply evidence that overthrows misrepresentations and conquers unjust, unfair competition**.

Perhaps no one enterprise of this firm has received more attention than the STARK DENVER ORCHARDS; and yet the **VERY EXISTENCE** of these orchards **has been denied**, notwithstanding they have been **PHOTOGRAPHED OR ILLUSTRATED** by leading horticultural papers and the great dailies of Denver **as well as in the U. S. DEPARTMENT OF AGRICULTURE REPORT**, and **VISITED BY THOUSANDS**, including such scientists as Prof. L. R. Taft, of Mich. Exp. Station, U. S. Pomologist Van Deman, and others equally eminent. However,

Abuse Always Recoils upon the head of the abuser; the very worst wind sown is that which has for its purpose the extermination of a just, fair and square business. Right is always successful and truth is something which **must** prevail. Honorable business methods alone can build up and guarantee the permanency of any firm. Business men who abuse and misrepresent their competitors are sowing to the wind. It is only a matter of time when they will reap the whirlwind.

STARK BRO'S dare to do right as they see the right, regardless of what others may do or leave undone. Year by year they do a constantly increasing business. Many who sought to annihilate them, sowing the wind of abuse, long ago reaped the whirlwind.





FLORENCE CRAB
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STARK BROS.
N. & O. CO.

FROM PHOTO